

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)



Project Report

on

News Aggregator Web Application

Submitted By:

ANUJ GUPTA

0901CA201012

Mentor:

Mrs. Geeta Kakrani, Director, Kanishka I.T.

Dr. R. S. Jadon, Program Coordinator, M.C.A.

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE

GWALIOR - 474005 (MP) est. 1957

MAY-JUNE 2022

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A project report submitted in partial fulfillment of the requirement for the degree of

MASTER OF COMPUTER APPLICATION

in

COMPUTER SCIENCE AND ENGINEERING

Submitted by:

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Submitted to:

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MAY-JUNE 2022

KANISHKA



PVT. LTD.

WEBSITE & SOFTWARE TRAINING AND DEVELOPMENT COMPANY

Incorporated under the companies' act.1956 (No. 1 of 1956)

Reg.No. U72200MP2010PTC023769

Date: 16-May-2022

TO WHOM SO EVER IT MAY CONCERN

This is to certify that **Mr. Anuj Gupta (0901CA201012)** Student of MCA from Madhav Institute of Technology and Science successfully completed four months (Jan 15, 2022, to May 15, 2022) long Training at this Organization.

During the period of his training program with us, he had been exposed to different technologies like Python and HTML, CSS, JavaScript, and make project "News Aggregator Web Application", during this period he was found punctual, hardworking, and inquisitive.

We wish him every success in his life and career.

Thank You in Anticipation

With best wishes,

KANISHKA I.T. PVT.LTD.,

Thank You in Anticipation

Geeta Kakrani
Director

Place: Gwalior

Date: May 16, 2022

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

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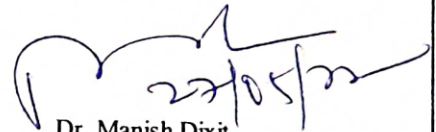
CERTIFICATE

This is certified that ANUJ GUPTA (0901CA201012) has submitted the project report titled **News Aggregator Web Application** under the mentorship of **Mrs. Geeta Kakrani, Director, Kanishka I.T.**, in partial fulfilment of the requirement for the award of the degree of Master of Computer Application of Computer Science and Engineering from Madhav Institute of Technology and Science, Gwalior.



Dr. R. S. Jadon

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(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

DECLARATION

I hereby declare that the work being presented in this project report, for the partial fulfilment of the requirement for the award of the degree of Master of Computer Application in Computer Science and Engineering at Madhav Institute of Technology & Science, Gwalior is an authenticated and original record of my work under the mentorship of **Mrs. Geeta Kakrani, Director, Kanishka I.T.**

I declare that I have not submitted the matter embodied in this report for the award of any degree or diploma anywhere else.

Anuj Gupta

ANUJ GUPTA
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2nd Year,

Master of Computer Application,
Computer Science and Engineering

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR
(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

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I would like to express my gratitude to "**KANISHKA I.T. PVT LTD**" for giving me the opportunity to undertake this project in this esteemed organization and for supporting me to complete this internship project. I am very thankful to **Mrs. Geeta Kakrani mam** and all the colleagues of Kanishka IT Pvt. Ltd. Gwalior for their valuable guidance, encouragement, inspiration, and working devotion for the completion of the internship project on "**News Aggregator Web Application**".

I am sincerely thankful to my faculty coordinator. I am grateful to the guidance of **Dr. R. S. Jadon**, (Program Coordinator, M.C.A.), Computer Science and Engineering, for his continued support and guidance throughout the project. I am also very thankful to the faculty and staff of the department.

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ABSTRACT

The internet world is filled with information and news and keeping on of all of it is next to impossible. But it is especially important for everyone to make sure that they are up to date. Visiting every single one that you are interested in can be an immense and time-consuming task. That is where news aggregators come in and make the task easier.

News aggregators can save the user the time and recourse that would normally be needed to gather all this information. This project fulfills its main goal of developing a news aggregator using the Django framework that can aggregate news articles from a different sources. In a news aggregator, readers can select the topic they want to follow. The news aggregator collects the articles and makes the reader one click away to get information from various websites. It gives the users with a web link to news articles, which provides the reader with a trusted source of news and keep them stay afloat in an unending sea of news.

The main aim of the project on news aggregator is to manage different categories of news like sports news, science news is to pulling together content from multiple news websites and show all the content in only one place. People have always been interested in the news.

News influences our lives, work, businesses, health, and all the other spheres of life, according to the [recent research of the World Association of News Publishers](#), **over the recent 5 years, several news subscribers have grown by 208%** and readers are willing to pay for news content now. **News consumption growth will reach 57% by 2022.** This modern rhythm requires fast solutions. Newspapers are now in the past and even news websites can hardly catch up. *and nothing is as fast and convenient as aggregators in terms of news delivery.*

Are aggregators and news websites the same or different?

While news websites are represented by social media and post only original content, and aggregators post syndicated content aggregated from websites and other online resources. This is an important distinction to know when you start building a content aggregator website

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1 Introduction: -

1.1 About Project-

The **News Aggregator Web Application** is an online news aggregator which will provide the latest news from multiple sources in one place, this application saves users time to visit different websites, and this software will help the user to enhance their knowledge of different topics because in today's world, it is especially important to up to date their knowledge and it is extremely hard for readers to visit the different website and read the news, and no formal knowledge is needed for the user to use this system. Thus, by this, it proves it is a user-friendly application.

The main idea was to develop the project to create a program that would be able to pull all the news articles provided by major news agencies around the world for a given period and change the content for easy-to-read headline points.

It also provides better service and data security than other news aggregators are not providing they keep track of users' data, but in this news aggregator, web application users' private data keep safe.

The aim of the project is to develop a news aggregator using the Django framework with necessary techniques that will aggregate news articles and supply information to the user.

Scope –

The main scope of making a news aggregator is to provide users with a summary of the news content that is aggregated from the different websites, in this social media world where everyone shares their opinions and thoughts on the latest news and trends platforms like news aggregator have an incredibly good scope in future proceedings, several user-friendly interfaces have also been updated.

It will enhance user's knowledge by providing news from multiple sources, it will become more beneficial for the user by saving search time for news and they get updated content and keep their knowledge updated

Information gathering tools –

We get information about this project from several websites, but for more valuable information for this project and to all fulfilled all the requirements we also discuss this project with others to know their opinion to reading news from many websites, and we got the everyone wants one website there he visits and gets news from all website.

Objectives:-

The main objective of this system is to develop an effective and efficient application that will be helpful for everyone to read news and will not face any security issues as many newsgroups trace user data but our website does not trace user data and does not store their confidential information.

And provides updated news based on news categories Health news, science, and technology news, etc.

Advantages:-

1. Aggregates news from various sources on the web in one place.
2. Minimize the time and effort required to regularly check websites for updates.
3. Provide updated news in one place.
4. Provide better service and data security than other news aggregators
5. Show only news not unnecessary ads in the website.

1.2 About Organization:-

Kanishka IT Solutions Pvt. Ltd was incorporated in 2009 and is a complete IT solutions company. It is big corporates to small businesses and even entrepreneurial start-ups.

We have a team of technically capable and devoted people, state-of-the-art facilities, and infrastructure to back up offshore development. We offer a virtual expansion of the client's development environment and dependable services. Our highly qualified and experienced IT professionals give your business a global perspective as well as profitability by delivering turnkey IT solutions.

The group's top-notch analysts, designers, application developers, and support specialists strive to provide the most effective solutions to the customers. Recognized as one of the top web designing and development companies in India, Kanishka IT Solutions has a business experience of 4 years and serves a diverse list of clients spread globally. As an integrated IT services providing firm we offer a cross-fertilization of strategic ideas in branding, websites & online marketing solutions.

Company Services: -

1. Web Site Development and designing
2. Software Development & maintenance

Company Mission: -

We believe in quality training to new comer generation in the field of Information & Technology. We provide technical skills to our student so that they can compete the world by their expertise. Knowledge means the soundness in every aspect of technology; more emphasis is given on practical training on latest machines like laptops etc. we also provide theoretical training through projector slides and power point presentations to our students.

We should try that our student gets complete knowledge according to corporate world of

1.3 About Technologies: -

Software Requirements –

Basic software requirements to Implement this Project –

Frontend –

For Frontend we decide to use HTML, CSS, JAVASCRIPT and BOOTSTRAP

HTML (Hypertext Markup Language) is main markup language for displaying web pages and other information that can be displayed in web browsers.

HTML written in the form of the HTML elements consisting of tags enclosed in angle brackets with in the web page content.

The purpose of the web browser is to read HTML documents and compose them into visible web pages, the browser newer displays the HTML tags are used to interpret the content of the pages.

We use HTML5 which is 5th version of HTML to developed this project.

CSS (Cascading Style Sheets) is referred to define the appearance and layout of the text and other material. CSS is encouraged to be used over explicitly presentational HTML markup.

We use CSS3

which is 3rd version of CSS to developed this project.

JavaScript is a dynamic computer programming language. It is lightweight and most used as a part of web pages; whose implementations allow client-side script to interact with the user and make dynamic pages. It is an interpreted programming language with object-oriented capabilities. We use JavaScript to develop this project.

The way JavaScript works is interesting. Inside a normal Web page, you place some JavaScript code (See How Web Pages Work for details on Web pages). When the browser loads the page, the browser has a built-in interpreter that reads the JavaScript code it finds in the page and runs it.

Bootstrap is the most popular HTML, CSS, and JavaScript framework for developing a responsive and mobile friendly website. It is a front-end framework used for easier and faster web development. It includes HTML and CSS based design templates for typography, forms, buttons, tables, navigation, modals, image carousels and many others.

Backend: –

For backend we decide to use Django which is python's web framework

Python-

Python is a general purpose, dynamic, high-level, and interpreted programming language. It supports Object Oriented programming approach to develop applications. It is simple and easy to learn and supplies lots of high-level data structures. Python is easy to learn yet powerful and versatile scripting language, which makes it attractive for Application Development. Python's syntax and dynamic typing with its interpreted nature make it an ideal language for scripting and rapid application development. Python supports multiple programming pattern, including object-oriented, imperative, and functional or procedural programming styles. Python is not intended to work in a particular area, such as web programming. That is why it is known as multipurpose programming language because it can be used with web, enterprise, 3D CAD, etc. We do not need to use data types to declare variable because it is dynamically typed so we can write `a=10` to assign an integer value in an integer variable. Python makes the development and debugging fast because there is no compilation step included in Python development, and edit-test-debug cycle is extremely fast.

Django-

Django is a web application framework written in Python programming language. It is based on MVT (Model View Template) design pattern. The Django is very demanding due to its rapid development feature. It takes less time to build application after collecting client requirement. This framework uses a famous tag line: **The web framework for perfectionists with deadlines.** By using Django, we can build web applications in very less time. Django is designed in such a manner that it handles much of configure things automatically, so we can focus on application development only. Django was design and developed by Lawrence journal world in 2003 and officially released under BSD license in July 2005. Currently, DSF (Django Software Foundation) keeps its development and release cycle. Django was design and developed by Lawrence journal world in 2003 and officially

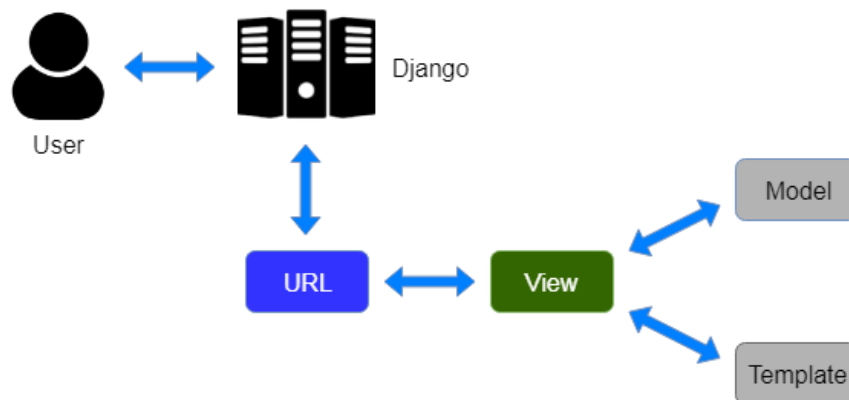
released under BSD license in July 2005. Currently, DSF (Django Software Foundation) keeps its development and release cycle.

The MVT (Model View Template) is a software design pattern. It is a collection of three important components Model View and Template. The Model helps to handle database. It is a data access layer which handles the data.

The Template is a presentation layer which handles User Interface part completely. The View is used to execute the business logic and interact with a model to carry data and renders a template.

Although Django follows MVC pattern but maintains its own conventions. So, control is handled by the framework itself.

There is no separate controller and complete application is based on Model View and Template. That is why it is called MVT application.



Here, a user **requests** for a resource to the Django, Django works as a controller and check to the available resource in URL.

If URL maps, a **view is called** that interact with model and template, it renders a template. Django responds back to the user and sends a template as a **response**.

Scrapy -

Scrapy is a fast high-level web crawling and web scraping framework, used to crawl websites and extract structured data from their pages. It can be used for a wide range of purposes, from data mining to monitoring and automated testing.

Web scraping a web page involves fetching it and extracting from it. Fetching is the downloading of a page (which a browser does when a user views a page). Therefore, web crawling is a main component of web scraping, to fetch pages for later processing. Once fetched, then extraction can take place. The content of a page may be [parsed](#), searched, reformatted, its data copied into a spreadsheet or loaded into a database. Web scrapers typically take something out of a page, to make use of it for another purpose somewhere else. An example would be to find and copy names and telephone numbers, or companies and their URLs, or e-mail addresses to a list (contact scraping).

While some may appreciate the challenge of building their own web scraper from scratch, it's better if you do not reinvent the wheel and rather build it on top of an existing library that handles all those issues. We will be using [Scrapy](#), a Python library, together with [Python 3](#) to implement the web scraper in this tutorial. Scrapy is an open-source tool and one of the most popular and powerful Python web scraping libraries. Scrapy was built to handle some of the common functionalities that all scrapers should have. This way you don't have to reinvent the wheel whenever you want to implement a web crawler. With Scrapy, the process of building a scraper becomes easy and fun.

Scrapy is available from [PyPi](#), commonly known as pip – the Python Package Index. PyPi is a community-owned repository that hosts most Python packages. When you install and set up Python 3 on your local development environment, it installs pip too, which you can use to install Python packages

Database: –SQLITE

We decide to use SQLite because, SQLite is an in-process library that implements a self-contained, serverless, zero-configuration, transactional SQL database engine. It is a database, which is zero-configured, which means like other databases you do not need to configure it in your system. SQLite engine is not a standalone process like other databases, you can link it statically or dynamically as per your requirement with your application. SQLite accesses its storage files directly.

Basic software requirements to run this project: -

1. Any web browser.
2. Any operating like Windows, Mac, and Android.
3. Python
4. Django

Hardware Requirements –

Basic hardware requirements to Implement this Project –

1. Processor – Intel i3 core (Minimum)
2. Processor Speed – 2.5
3. Disk Space: 500GB+
4. Database – SQLite3
5. Ram – 2GB+

Basic hardware requirements to run this Project:

1. Stable internet connection with speed up to 512 kbps for every individual System.
2. And installation of any web browser these are minimum hardware requirements –

	Internet Explorer	Firefox	Opera	Chrome
Processor Windows	233 MHz	Pentium 4	Pentium II	Pentium 4
Process Mac		Intel	Intel	Intel
Min RAM	64 MB (XP)		128 MB	128 MB
Recommended RAM	512 MB	512 MB	256 MB	
Min Disk Space	150 MB (XP), 70 (Vista)		20 MB	100 MB
Rec. Disk Space	70 Mb	200 MB	100 MB	
Rec. Disk Space 64-bit	120 MB			
Windows	Windows XP	Windows XP SP2 (FF 13)	Windows 2000	Windows XP SP2
OS X		OS X 10.5	Mac OS X 10.5	Mac OS X 10.6
Linux		Any recent	Any Recent	Ubuntu 10.04

2 System Analysis: -

2.1 Requirement Identification: -

2.1.1 Study of existing System –

Initially, we collected all the information and the working of the current system. We noted the limitation of that system, which motivated us to develop new system. With the help of these information, we got basic ideas about the existing system. we tried to implement those ideas to develop the proposed system.

The most important thing is to study system thoroughly. Here we are studying both existing system and proposed system so that advantages & disadvantages of both the systems can be understood.

In current system readers should visit in different website for reading latest news because there are many news websites and it is very time consuming.

2.1.2 Problems and Weakness of existing System-

In this modern world, we know that there are many news sites which cover a wide range of topics, only a few of which are of interest to us. It is very time consuming for us to visit each site and we do not have much time to spare. There are some news aggregators, but the problem with it is some privacy issues.

In existing scenario, if person wants to get some news about the world or what is going on around him/her then he/she needs to go through the news website but there are lot of news website, visit to every website is an exceptionally lengthy process. If some someone is looking for some specific sector news, then it got tough for them to get the news directly.

A user will have to spend more time browsing to find the update of particular news. This may lead to wastage of time if the page information is unknown to the user. The main disadvantage is that there will be lot of difficulties for the user to find the specified news for users' choice of category.

2.1.3 Proposed System's Requirements': -

In the proposed system, there has a major module name as online news of Kanishka I.T.

This module includes the online news reading, where news is a separate by category, which have news from multiple website, each news is crawled from multiple website and save in the database which contains id, title, image URL, article URL etc. and all news show in the website and all news filter by category which is selected by user. In this module, admin can modify user and news. Each news has its separate category which also have its unique id, title, image URL, Website URL. admin can also update or view or delete these types of records.

In the user view user can create account then user redirect to login portal. User can read the news after login on this portal. They can select the category and the crawler crawl the news with different website and show the user, after clicking the news title user redirect to main website of the news. Though, it is also needed to visit different website, they can read it in one place, also every update/ news will come to them directly, the update will appear to their feeds automatically. user can give feedback for the website based on his/her experience.

To implement this system, these are the basic needs, which are required to develop the system.

1. News Website:

News websites are the basic needs which are crawled and get the title, image URL, and Website etc.

2. Category:

Category is required to show the news in the website, which can help the user to find out the news according to their choice or interest.

2.1.4 Requirement Elicitation: -

i. Registration: -

1. For Admin:

The 'Newsly' should allow to register for only authenticated admin.

2. For user:

The 'Newsly' should allow to register for only authenticated user by the registration module.

ii. Updating: -

1. Update old records:

The admin should update the old records time to time, and user can update their profile.

2. Add new records:

News record add by selecting the category by the user. And also give feedback for the website based on his/her experience.

3. Update profile:

User can update their profile.

4. Forgot Password:

User can reset old password by using forgot password module.

iii. Notification: -

1. Password Activity:

'Newsly' will generate the mail when user click on forgot password.

2. Password Activity:

'Newsly' will allow to fill feedback via feedback module.

iv. Database: -

1. User's Mandatory Information:

Each User's shall have the following mandatory information: Username, email, password, confirm-password.

v. Security Alert: -

1. Admin Identification:

The system requires the Admin to identify himself/herself.

2. Login Id:

Any user who uses the system shall have a login id and password.

3. Modification:

Any modification (insert/delete, update) for the database shall be synchronized and done by the admin.

4. Administrators' Rights:

Admin shall be able to view and modify all the information.

2.2 Feasibility Study: -

Preliminary investigation examines project feasibility, the likelihood the system will be useful to the organization. The main objective of the feasibility study is to test the Technical, Operational and Economical feasibility for adding new modules and debugging old running system. All system is feasible if they are unlimited resources and infinite time.

The following feasibility study was undertaken for the proposed system:

2.2.1 Technical feasibility:

We can strongly say that this project is technically feasible, since there will not be much difficulty in getting required resources for the development and maintaining the system as well, all the resources needed for the development of the system as well as maintenance of the same is available in the organization here we are utilizing the resources which are already available

1) Does the necessary technology exist to do what is suggested?

Ans. Yes, there are many technologies available to do but Django is one of most popular one.

2) Will the proposed system provide adequate response to inquiries, regardless of the number or location of users?

Ans. Yes, it is very efficient, it can handle large number of inquiries at the same time.

3) Can the system be upgraded if developed?

Ans. Yes, it can be upgrades as the new features comes it can be replaced the older one.

4) Are there technical guarantees of accuracy, reliability, ease of access and data security?

Ans. Yes, it is very accurate and reliable as it has wide community of users and is highly accessible and secure.

2.2.2 Economic feasibility:

The system is financially feasible. It does not require any additional hardware or software. Since the interface for this system is developed using the existing resources and technologies, there is nominal expenditure and economic feasibility for certain. There are some aspects which define why this project is economically feasible.

- 1) This is a very important aspect to be considered while developing a project. We decided on the technology based on the minimum possible cost factor.
- 2) Overall, we have estimated that the benefits to the organization, which it is going to receive from the proposed system, will surely overcome the initial costs and the later on running cost for the system. So, this project is economically feasible.

2.2.3 Behavioral feasibility:

Behavioral feasibility is a term used to describe people's attitudes towards different things. It also studies how people react to things. If the system meets the requirements of the customers and the administrator, we can say that the system is operationally feasible. The proposed system will be beneficial only if it can be turned into a system which will meet the requirements of the project when it is developed and installed, and there is sufficient support from the users.

The proposed projects will be beneficial for the client then only. When they will test the operational feasibility of the project, to implement this system, then some important issue may arise, includes the following:

- Is there sufficient support from their management team for the users?

Ans.- Yes, there is sufficient support from the management team for the client. We are providing some services to the user which will be beneficial for the client and it will attract the client. Some services will be like this: we will be providing technical and maintenance support till the 1 year, where we will help during this period if the client face problems or bugs in the project. We will provide free hosting and domain to the user, with which they will be able to implement the project without any extra cost.

- Will the system be beneficial, if it will be developed and implemented?

Ans- If client implement this project in future, so it is beneficial for the client's business purpose, because most of the users wants all facilities in single platform but no platform provides the facility of news aggregation, this web portal will meet this user's requirements in this platform, which will attract more users and this will directly help to capture the news from different website to the client.

Following tasks are performed by the operational feasibility for users:

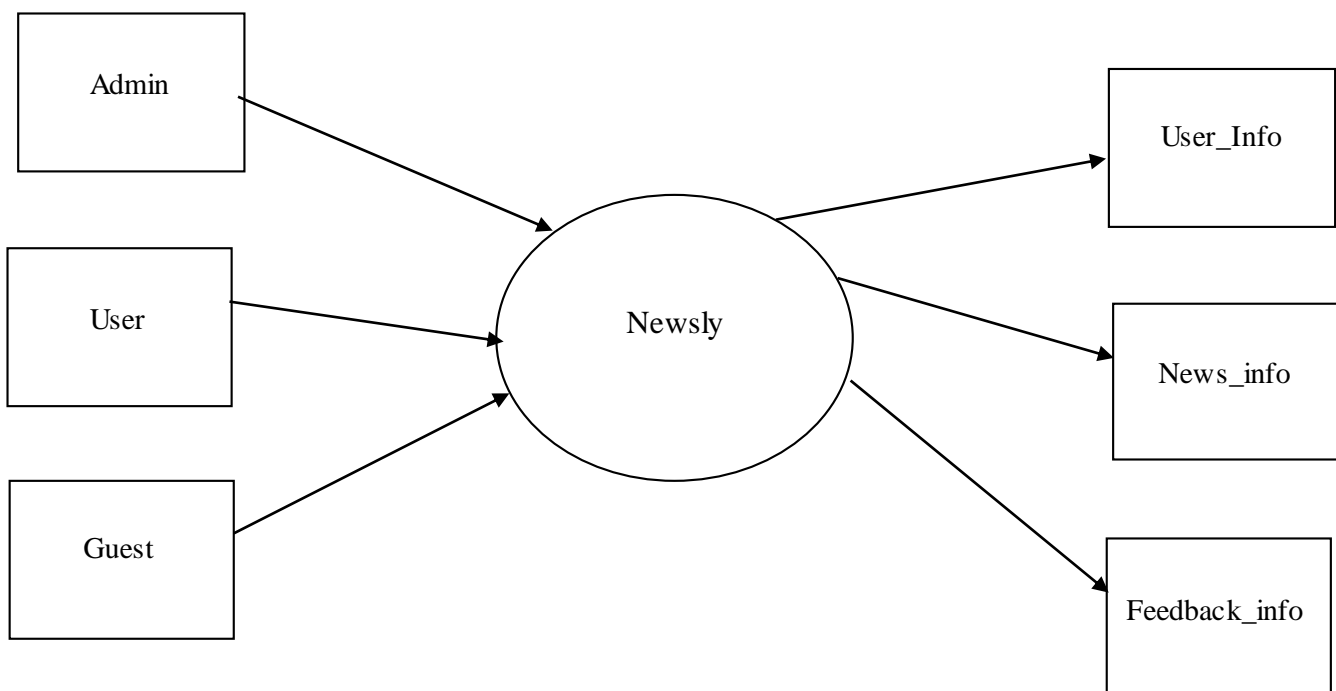
- i. It checks that the project is user friendly or not.
- ii. Its interface should be simple so that everyone should be able to use it.
- iii. The proposed system will improve the total performance.
- iv. The proposed system will be available to the customers throughout the globe.
- v. The proposed system will provide a better market for different users.

In the proposed system, we are planning to develop a system which interface will be user friendly and interactive. In this website, User can easily interact with the host through the easy mechanism of the website. So, finally we can say that, our proposed system will behaviorally feasible.

2.3 Data Flow Diagram: -

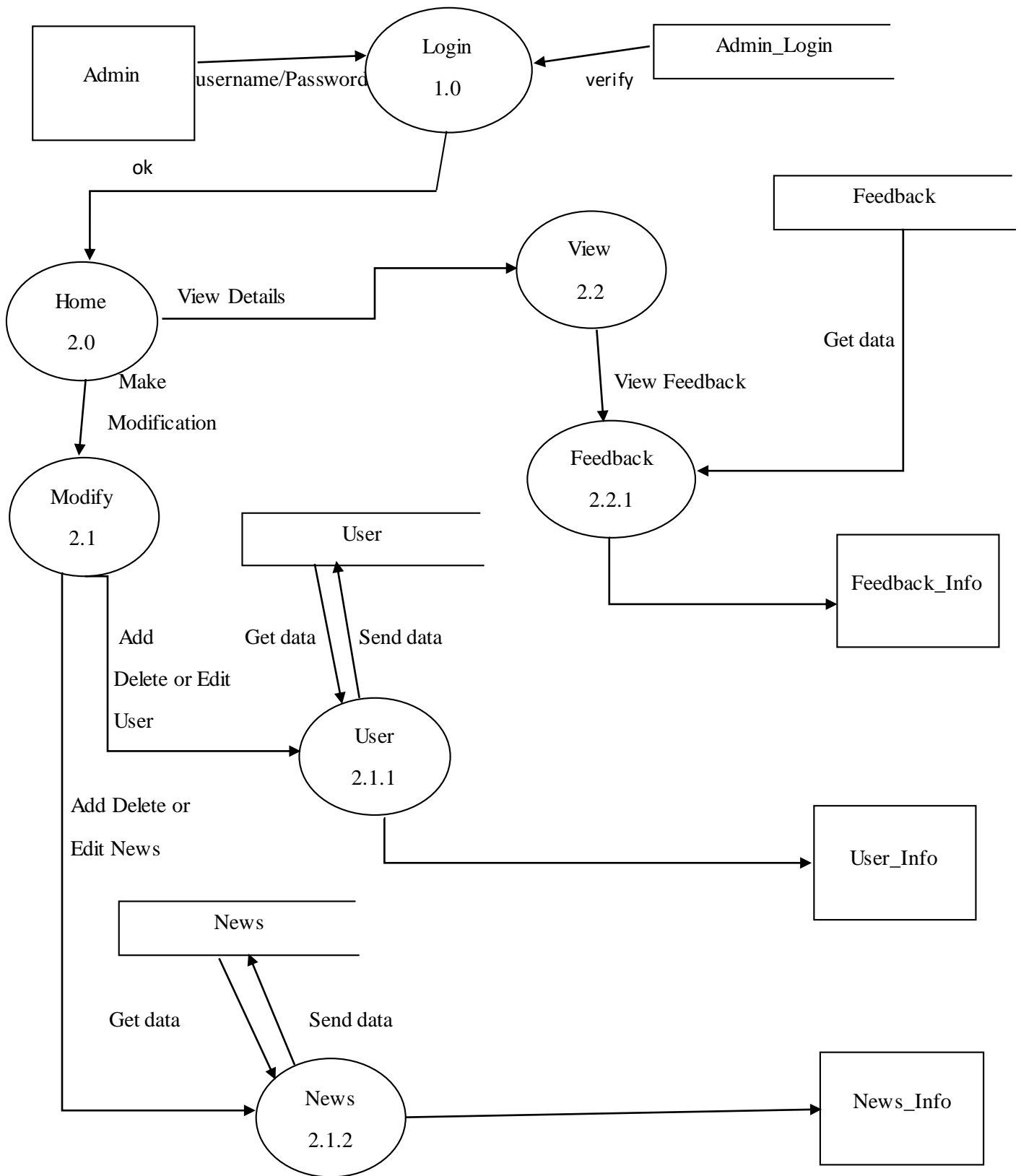
A data flow diagram is a graphical view of how data is processed in the system in term of input and output.

➤ **Context Level Diagram (0 Level DFD):**

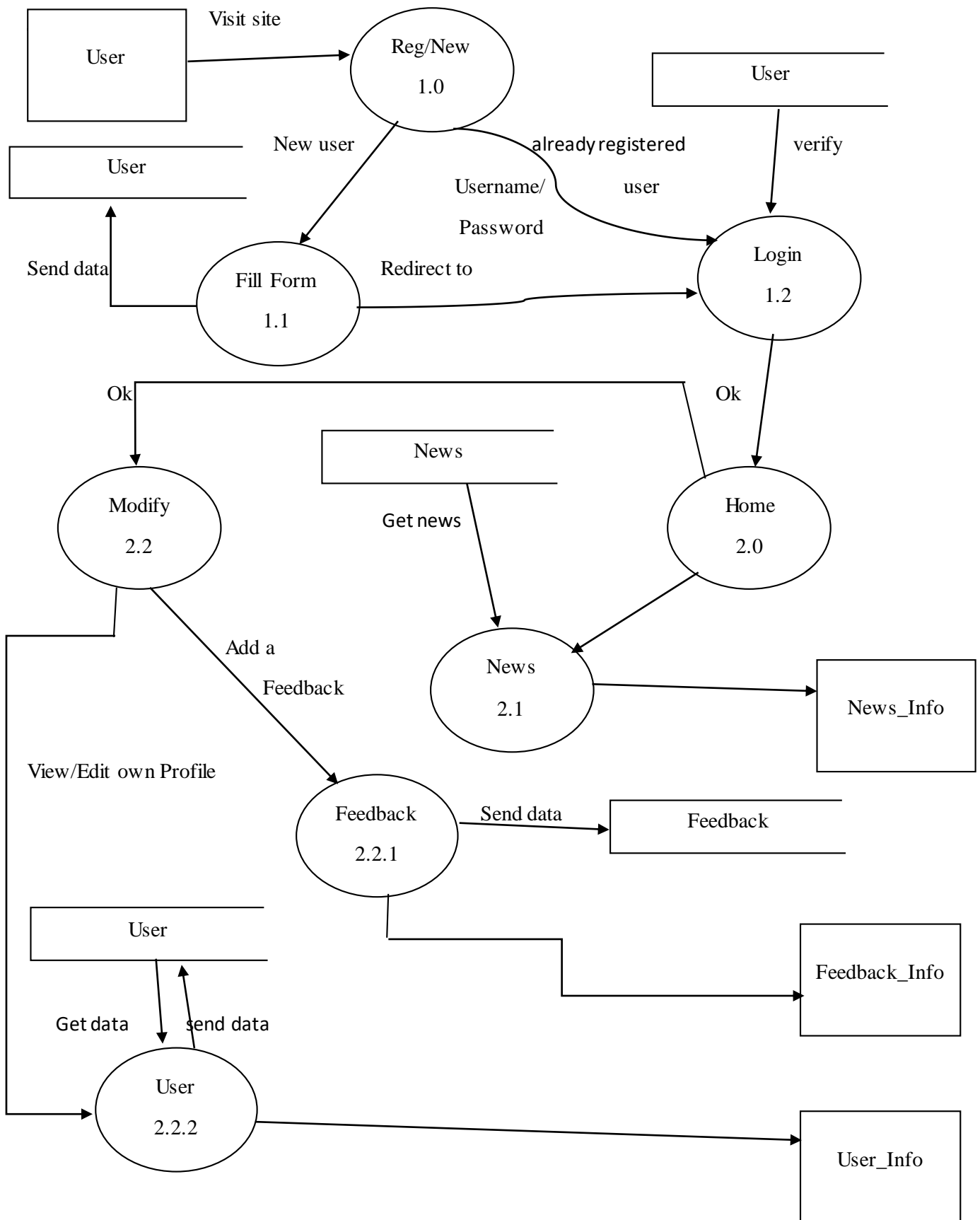


DFD for Newsly Web-Application

➤ Admin Side DFD:



➤ **User Side DFD:**

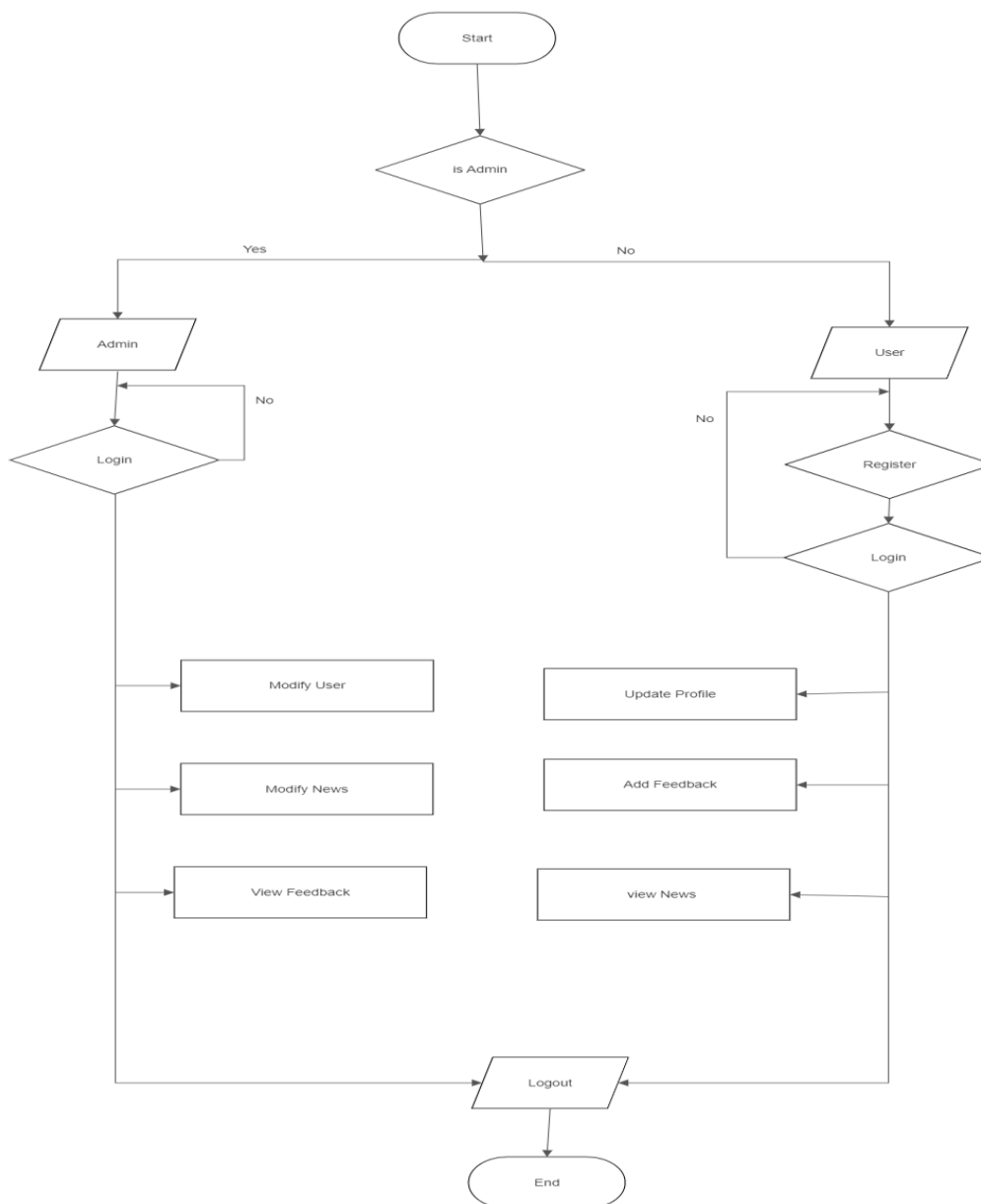


3 System Design: -

3.1 System Flow Chart: -

The system flow diagram is a visual representation of all processed in sequential order.

The System flow chart diagram is a graphical representation of the relation between all the major parts or step of the system. Flow chart diagram cannot include minor parts of the system.



3.2 Schema of Database: -

1. Table Name- User

#	Name	Data-Type	Key
1	UID	Int	Primary key
2	Username	Varchar (100)	—
3	Email	Varchar (100)	—
4	Password	Varchar (100)	—
5	C_Password	Varchar (100)	—

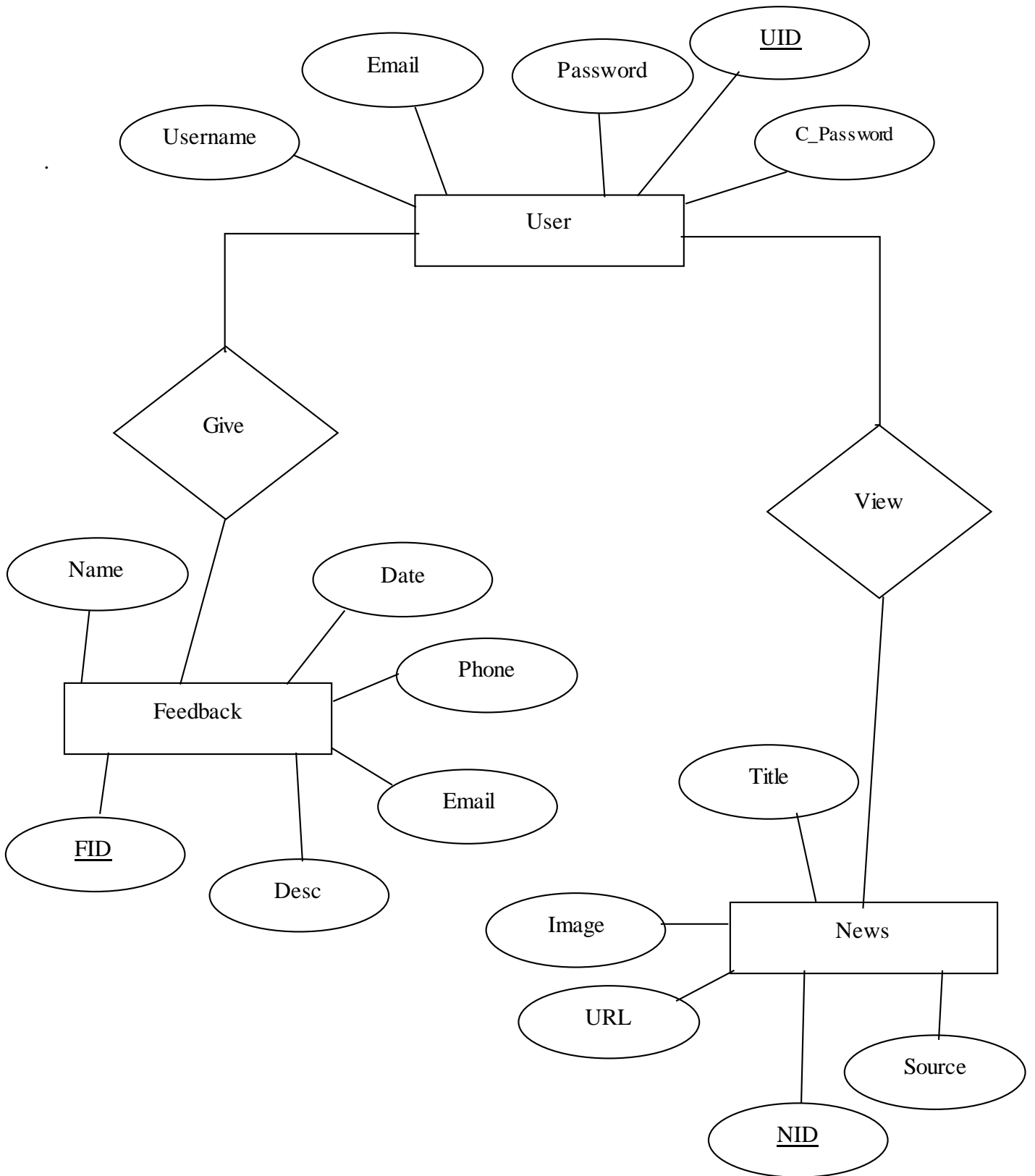
2. Table Name- News

#	Name	Data-Type	Key
1	NID	Int	Primary key
2	Image	Varchar (100)	—
3	Title	Varchar (100)	—
4	URL	Varchar (100)	—
5	Source	Varchar (100)	—

3. Table Name- Feedback

#	Name	Data-Type	Key
1	FID	Int	Primary key
2	Name	Varchar (100)	—
3	Email	Varchar (100)	—
4	Phone	Number (13)	—
5	Desc	Varchar (100)	—
6	Date	Varchar (100)	—

3.3 ER Diagram: -



4 Testing and Implementation

4.1 Importance of code:-

i. **What is importance of software testing?**

Project testing is Important or better to use the word critical for a project because nobody likes a software with defects.

Just to take an example: If you create an account on Newsly and if this web portal has been full of defects or if kept received a server error every time, when you are trying to create an account on this web portal. Would you prefer this software?

I think answer would be NO.

So, when this web portal will be complete then we have to ensure that every module (features of functionalities) is free from error. That's why project testing is important part of a project.

ii. **What is importance of software Implementation?**

In this project implementation phase, this phase ensures some parameters like something operating properly in its environment, including analyzing, requirements, installation, configuration, customization, execution, testing, system integrations, user training and delivery and making necessary changes. If these all are successfully work in the then that means your project is properly setup, otherwise user will face some problems when user use this project, that's why the software implementation is important part for all project.

4.2 Testing: -

Testing is a process, to evaluate the functionality of a software application with an intent to find whether the developed software met the specified requirements or not and to identify the defects to ensure that the product is defect-free in order to produce the quality product.

So here we are using three testing approaches to check that the developed system met the specified requirements or not.

4.2.1 Unit Testing:

This is the testing process, which we can do manually because in this testing program is a tested individually using live record, to see whether that program produce satisfied output as the company or not.

In this testing, we checked the individual modules of the project will be working properly or not. i.e. we tested each and every unit of the application separately in developer's environment

4.2.2 Integration Testing:

In integration testing, system consists different modules, where in each module can arise problems during the testing. Integration testing should be developed from the system specification. Firstly, a minimum configuration must be integrated and then tested.

In our project we have done integration testing. In our project we can integrate all module and then we have tested each module with each other, like a user. When a user visit on our web-portal, how the user will react when they saw our web-portal so, each module is tested by me and our development team.

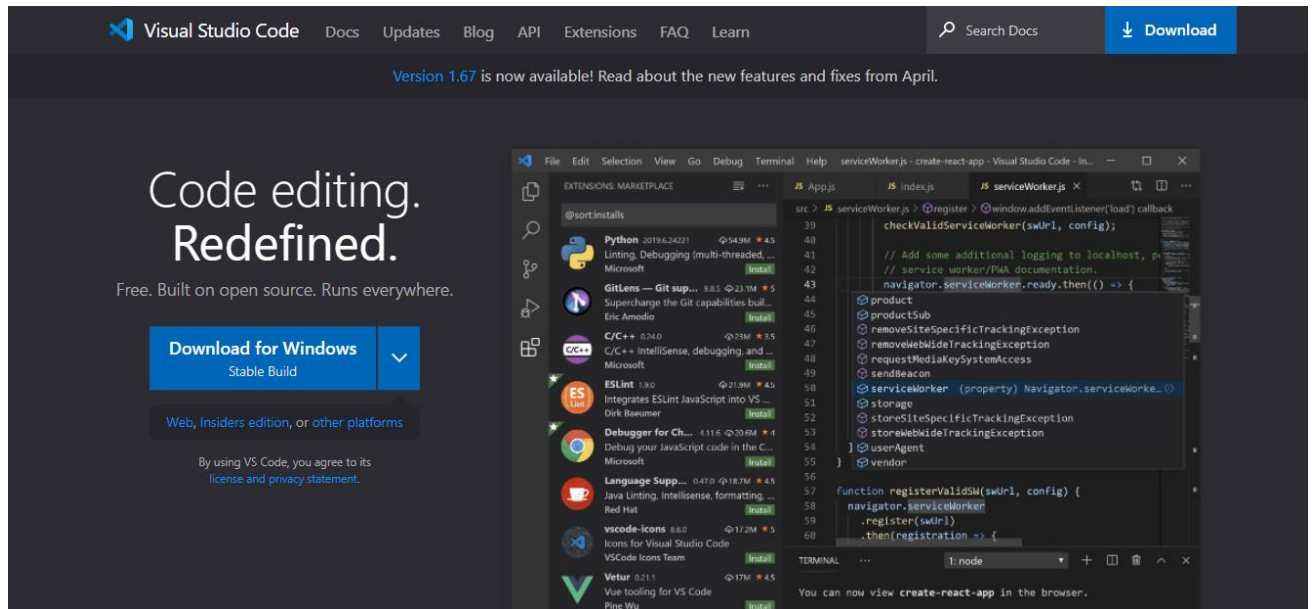
4.2.3 Validation Testing:

Validation testing provides final assurance that software meets all behavioral and performance requirements. Validation can be defining in many ways but a simple definition is that validation succeeds when software function in a manner that can be reasonably by the customer. In this testing we had tested the connectivity or data transfer between a couple of units tested modules.

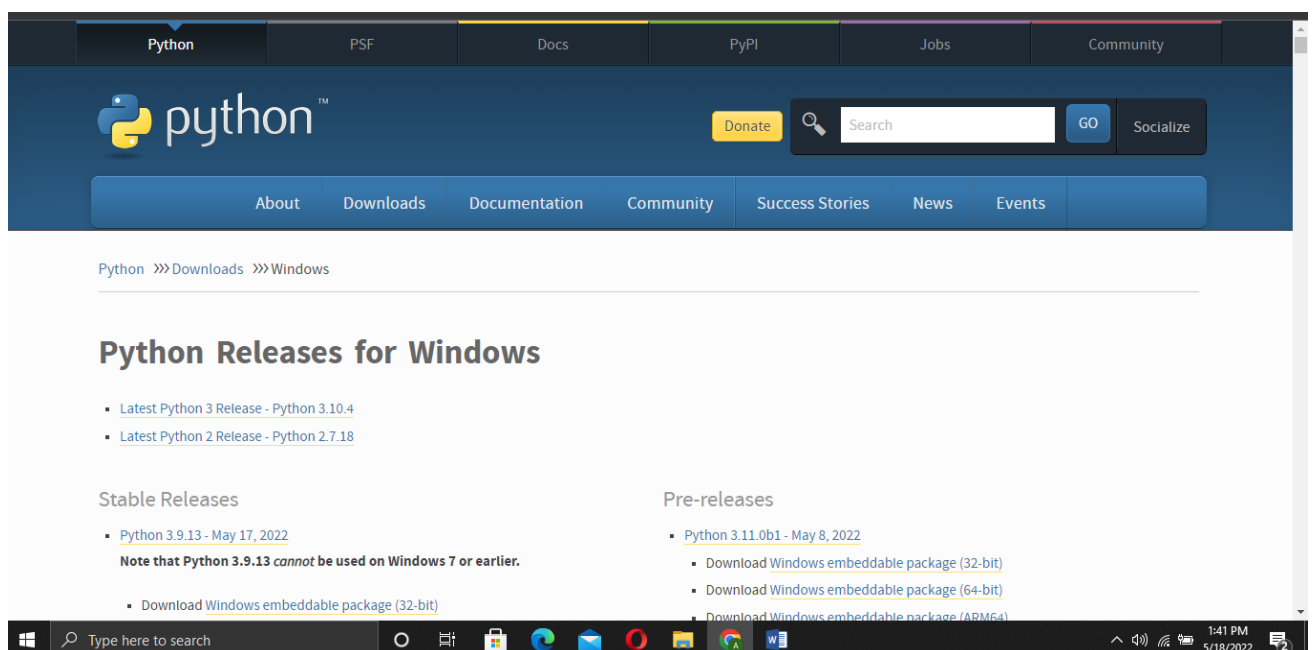
4.3 Implementation Details: -

Step:1 Getting a Text Editor: -

I use Visual Studio code as the text Editor because it has several plugins and built-in terminal features.



Step:2 Installing Python in the local machine –



1. Download latest version of python which is suitable with machine.
2. And install the python and check that python is working all good.

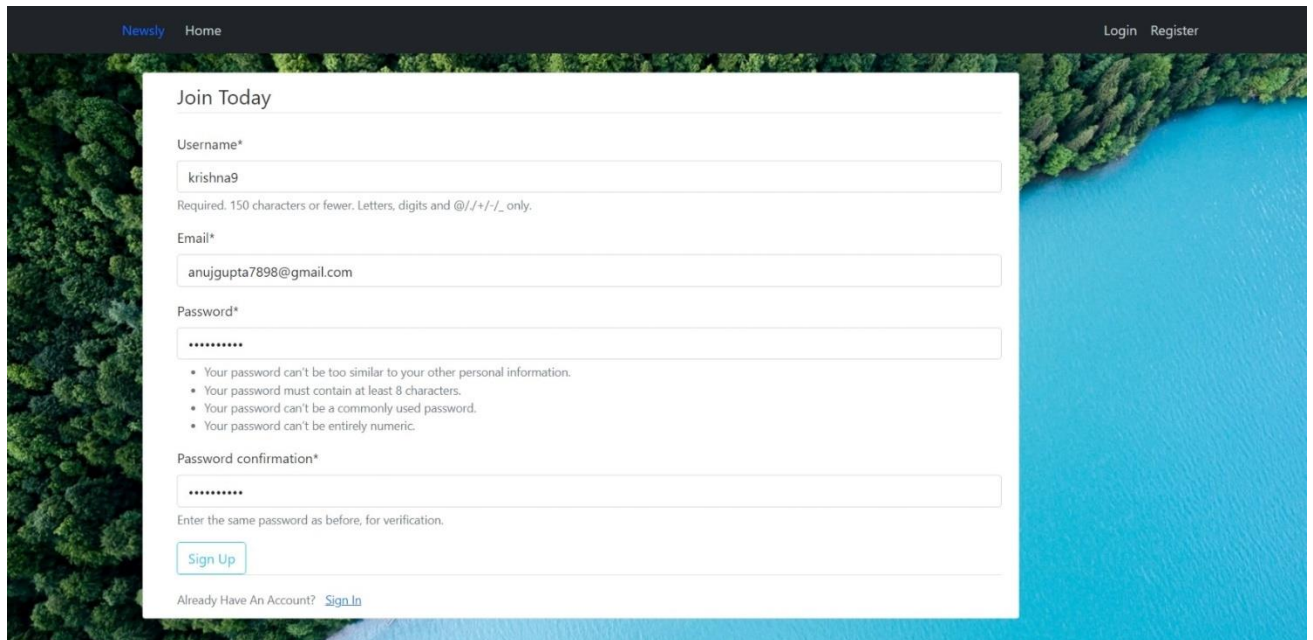
Step:3 Installing Django: -

1. Now we have to install Django in system so we have to follow this command.
Pip install Django

5 Result and Discussion

5.1 Sample Input: -

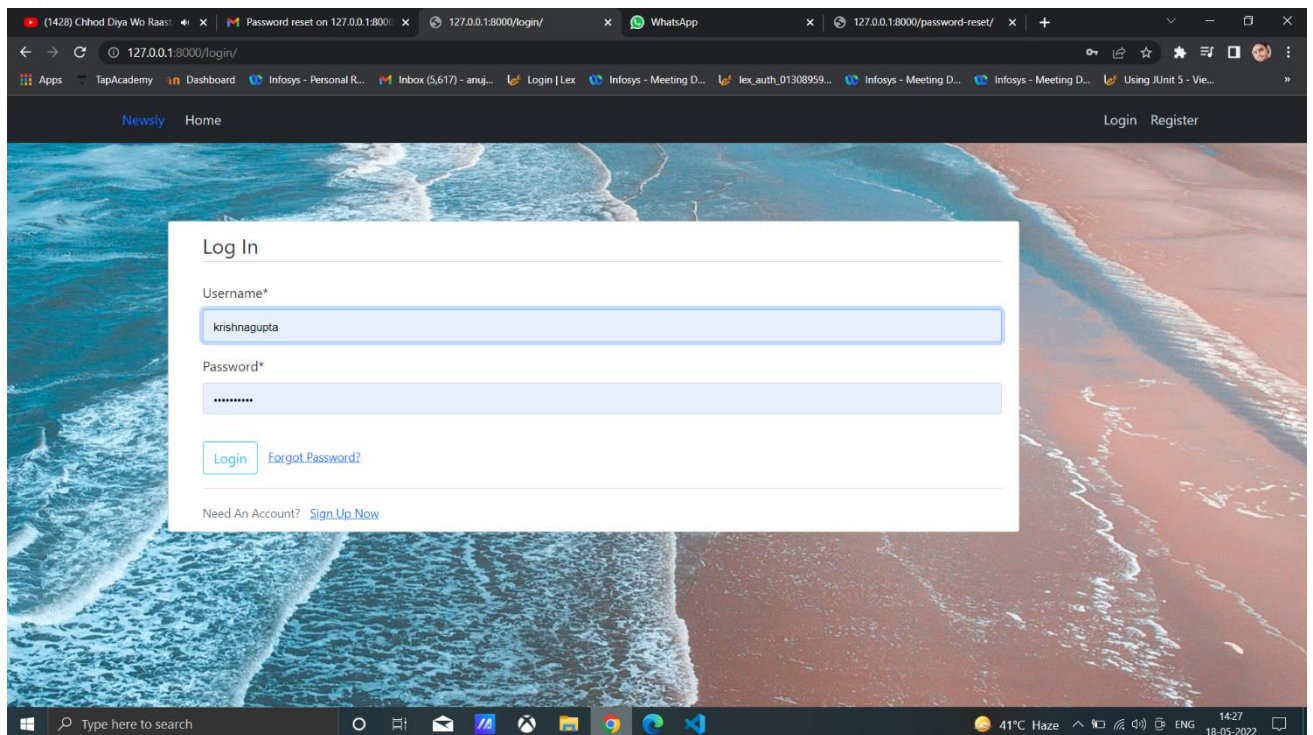
1.Register



The screenshot shows a registration form on a web page. The page has a dark header with 'Newsly Home' on the left and 'Login Register' on the right. The background is a scenic image of a forest and a blue lake. The form is titled 'Join Today' and contains the following fields and text:

- Username***: Input field containing 'krishna9'. Below it, a note says 'Required: 150 characters or fewer. Letters, digits and @/./+/-/_ only.'
- Email***: Input field containing 'anujgupta7898@gmail.com'.
- Password***: Input field with masked characters. Below it, a list of requirements:
 - Your password can't be too similar to your other personal information.
 - Your password must contain at least 8 characters.
 - Your password can't be a commonly used password.
 - Your password can't be entirely numeric.
- Password confirmation***: Input field with masked characters. Below it, the text 'Enter the same password as before, for verification.'
- A 'Sign Up' button.
- At the bottom, the text 'Already Have An Account? [Sign In](#)'.

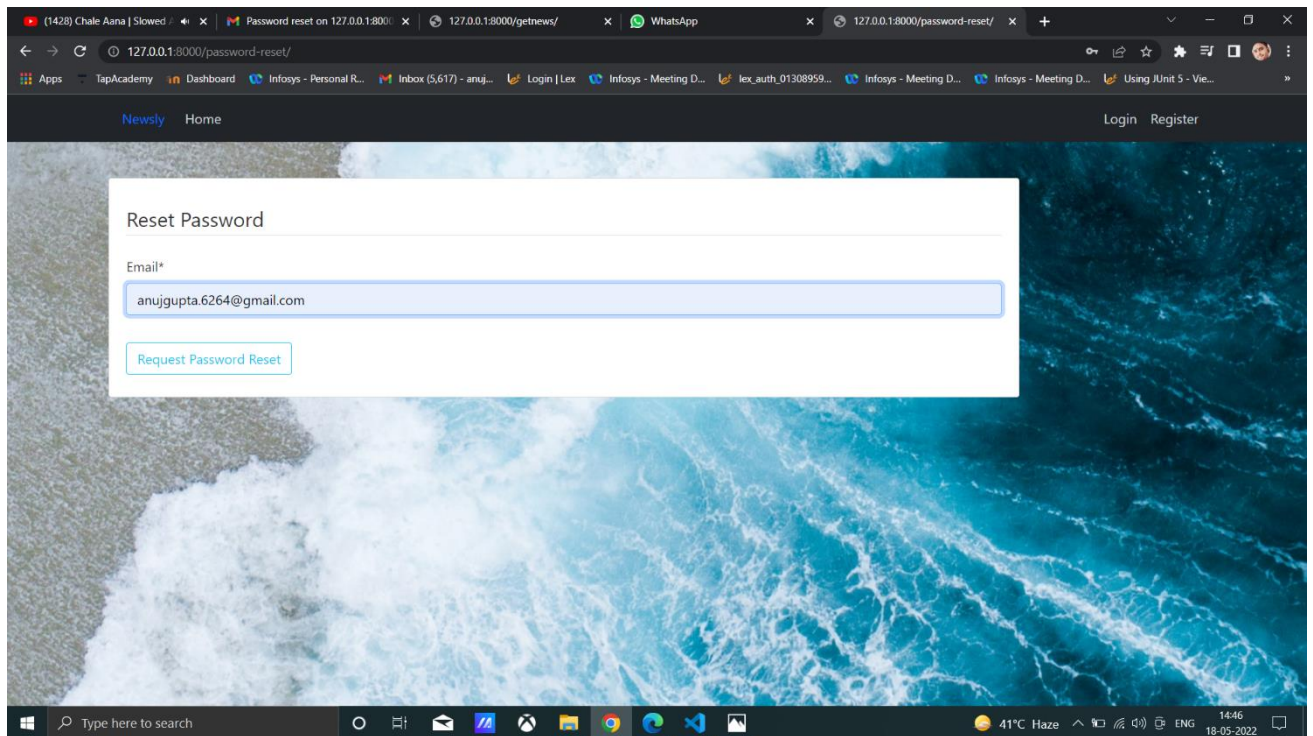
2.Login



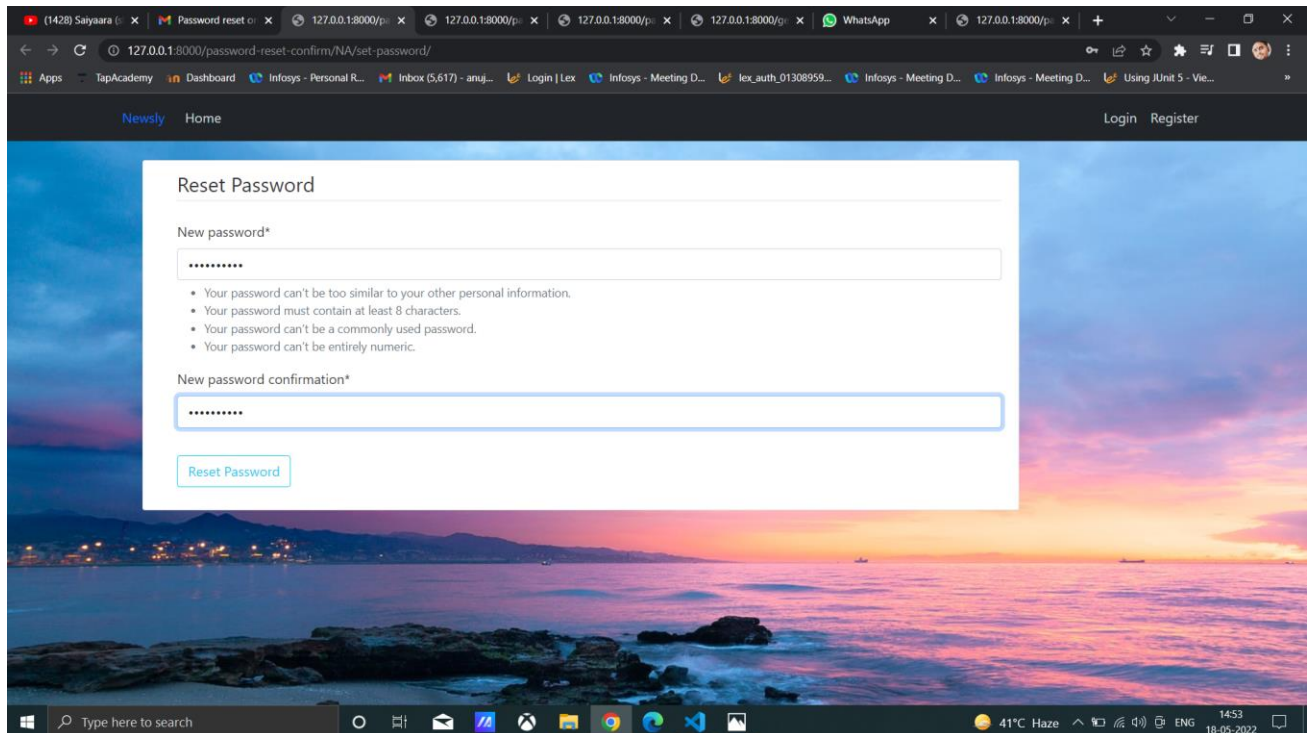
The screenshot shows a login form on a web page. The browser's address bar shows '127.0.0.1:8000/login/'. The page has a dark header with 'Newsly Home' on the left and 'Login Register' on the right. The background is a scenic image of a beach and ocean. The form is titled 'Log In' and contains the following fields and text:

- Username***: Input field containing 'krishnagupta'.
- Password***: Input field with masked characters.
- A 'Login' button and a 'Forgot Password?' link.
- At the bottom, the text 'Need An Account? [Sign Up Now](#)'.

3.Forgot Password



4.Reset Password



5.Feedback

Feedback

Name
Anuj Gupta

Email address
anujgupta.6264@gmail.com

Phone Number
6264061406

Feedback
Well done guys, you had created a nice website, now news reading is quite simple.

Submit

6.Update Profile

krishna91
anujgupta7898@gmail.com

Profile Info

Username*
krishna91
Required: 150 characters or fewer. Letters, digits and @/./+/-/_ only.

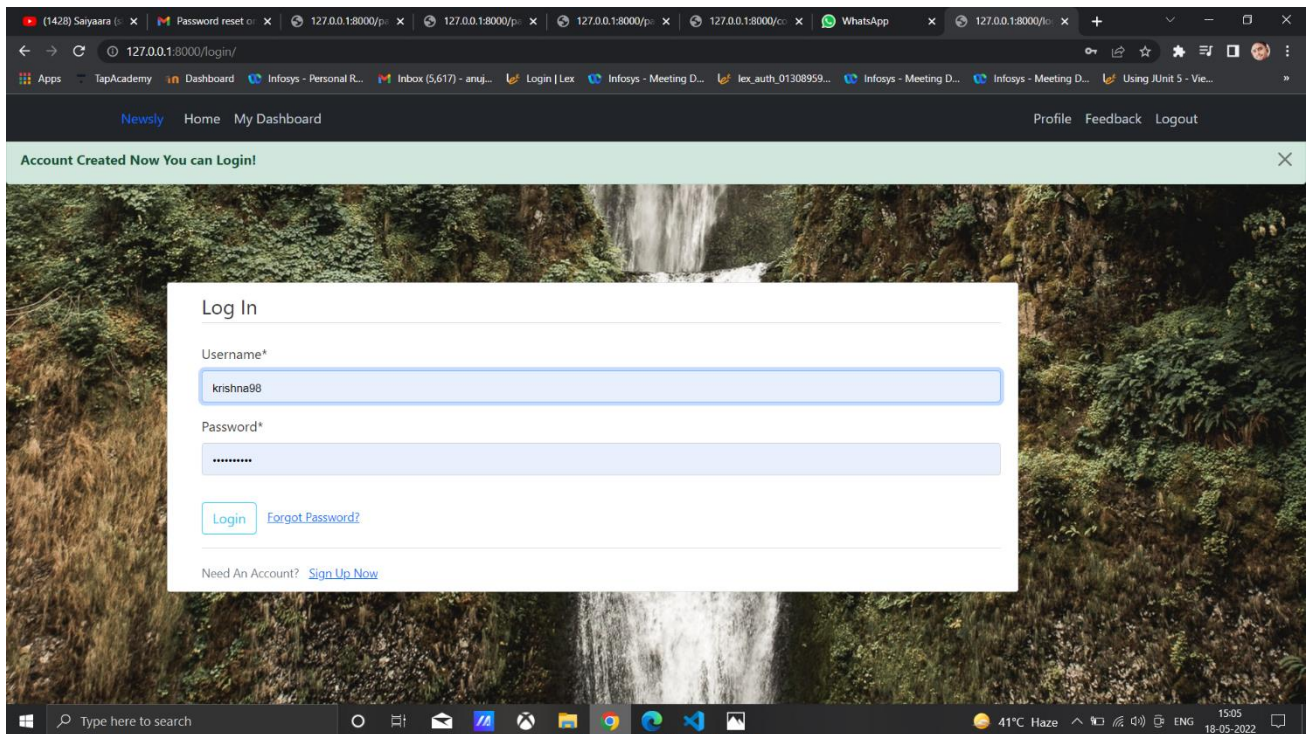
Email*
anujgupta7898@gmail.com

Image*
Currently: [default.jpg](#)
Change:
Choose File No file chosen

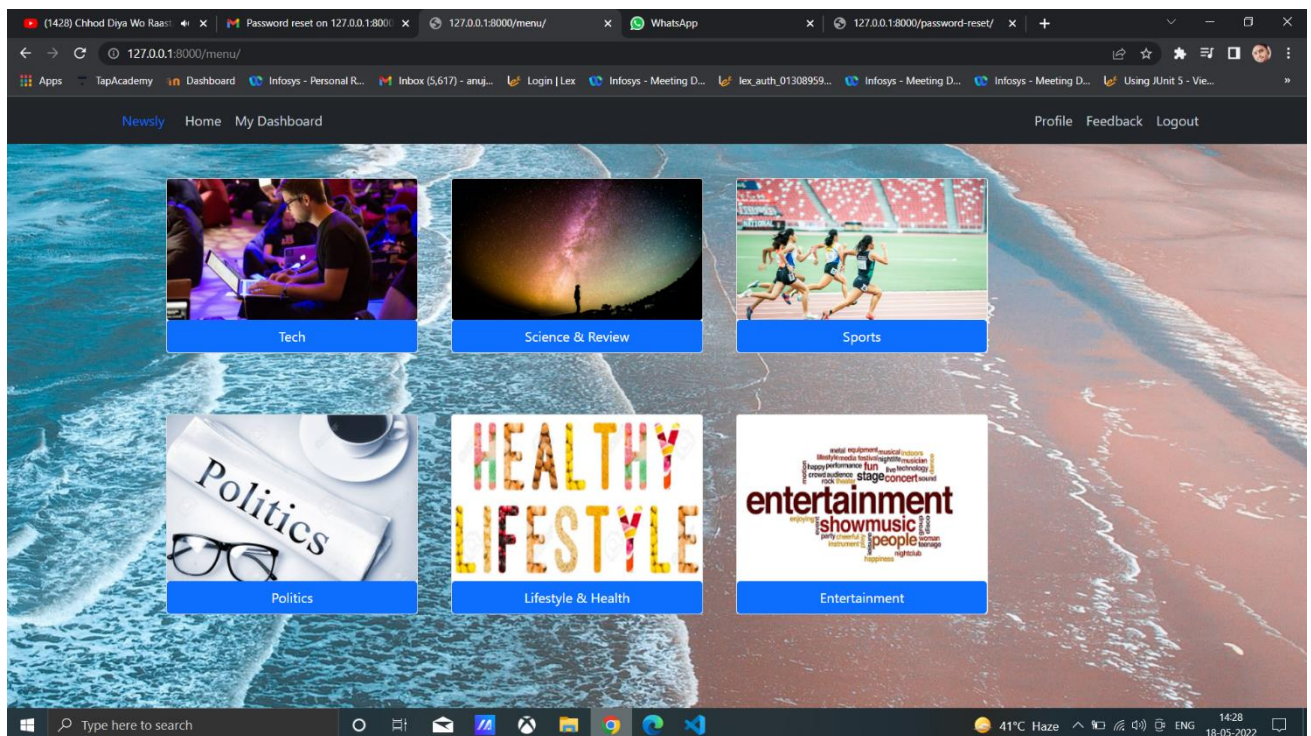
Update

5.2 Sample Output: -

1.Register



2.Login



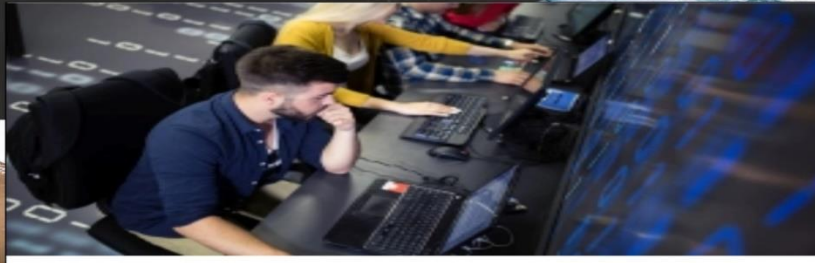
Technology News



CNCF launches a new program to help telcos adopt Kubernetes
Source : Techcrunch



IROKO co-founder Bastian Gotter raises \$3.2M seed for new venture, Bamba
Source : Techcrunch



QuestBook raises \$8.3 million to help web3 developers secure funds
Source : Techcrunch

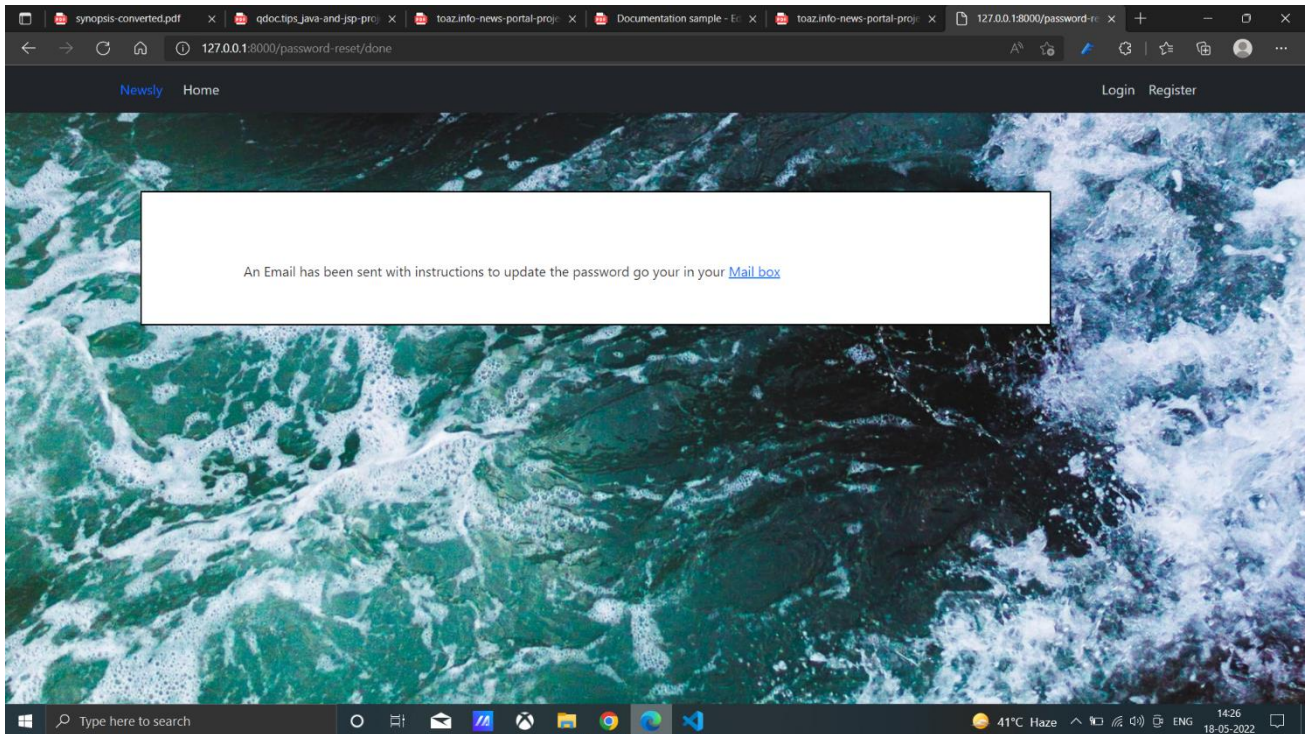


Amazon launches Smart Commerce in India to help offline stores launch digital storefronts
Source : Techcrunch

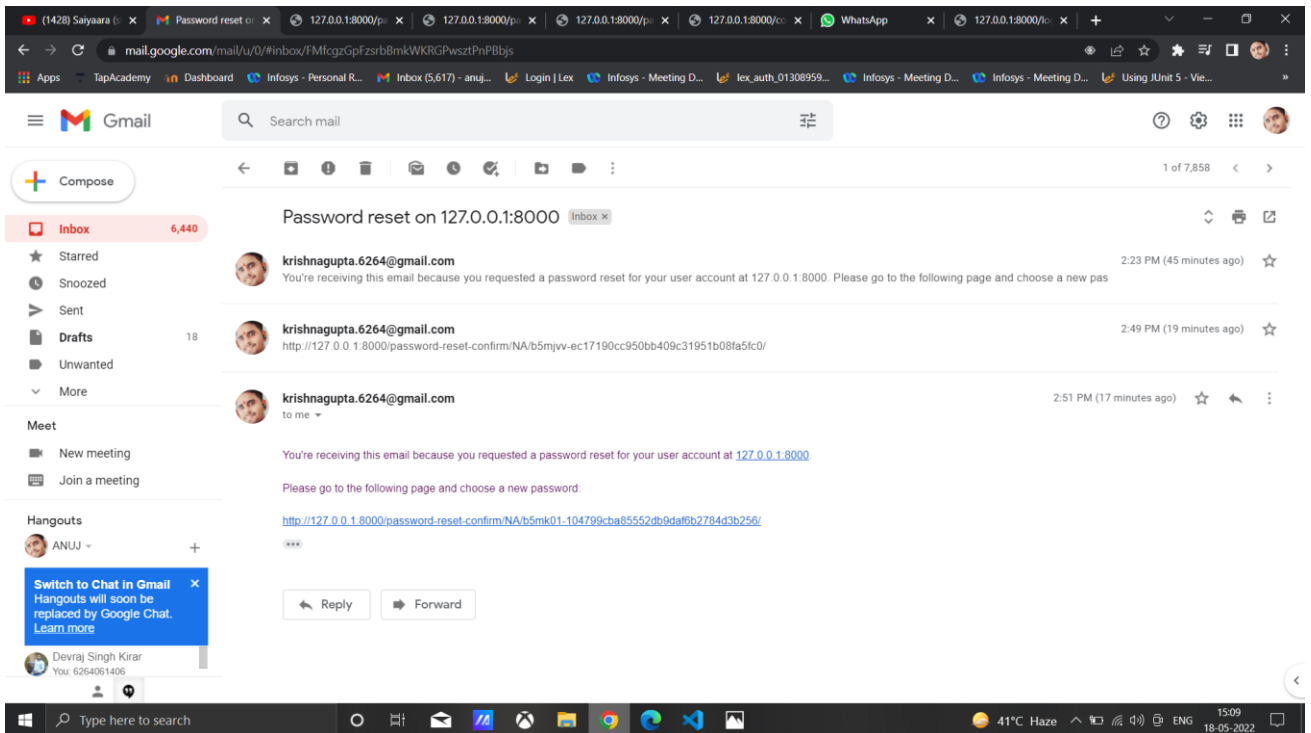


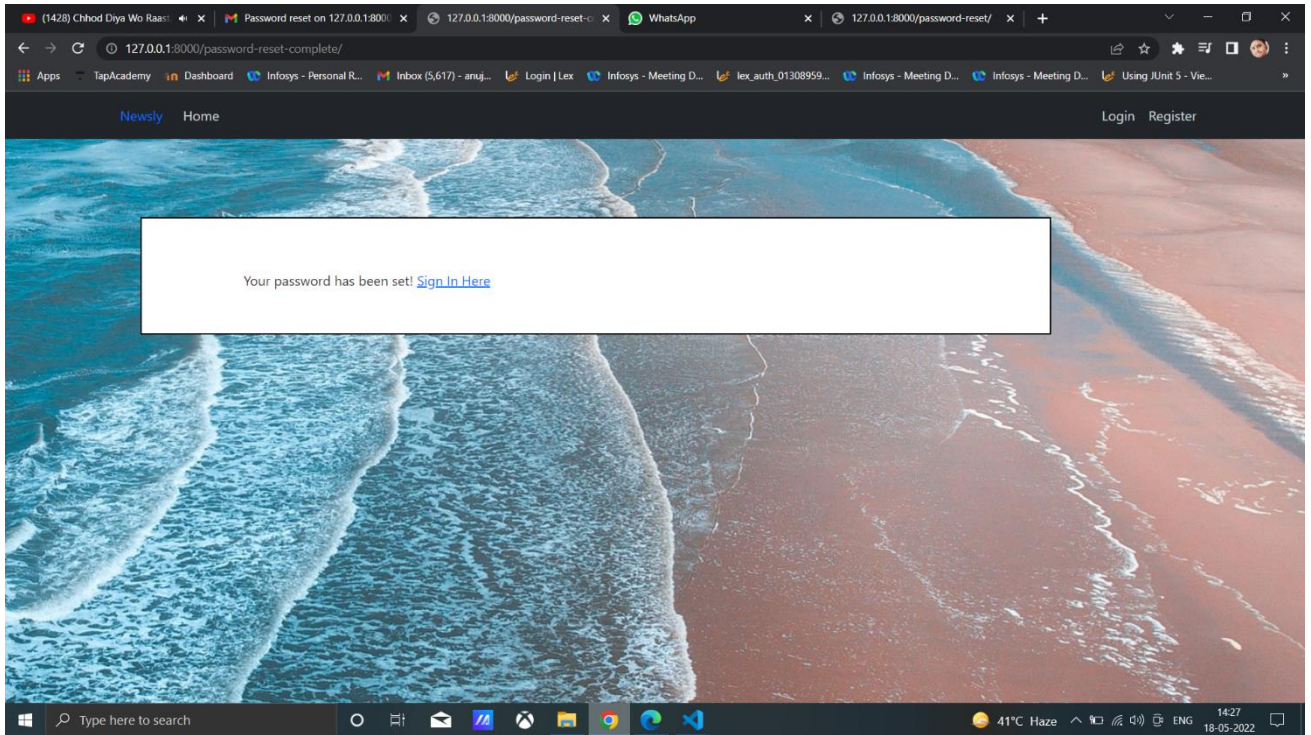
Autochek expands to North Africa after acquiring Morocco's Kifal Auto
Source : Techcrunch

3.Forgot Password

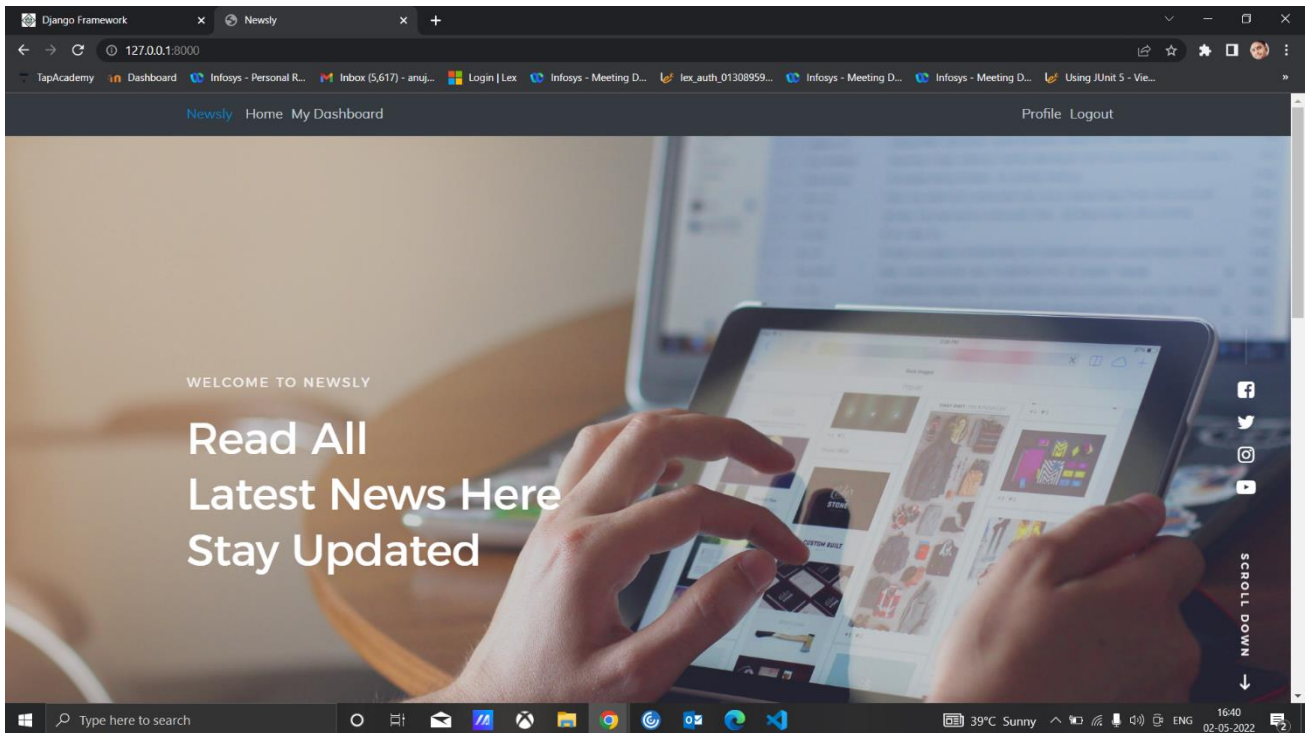


4.Reset Password

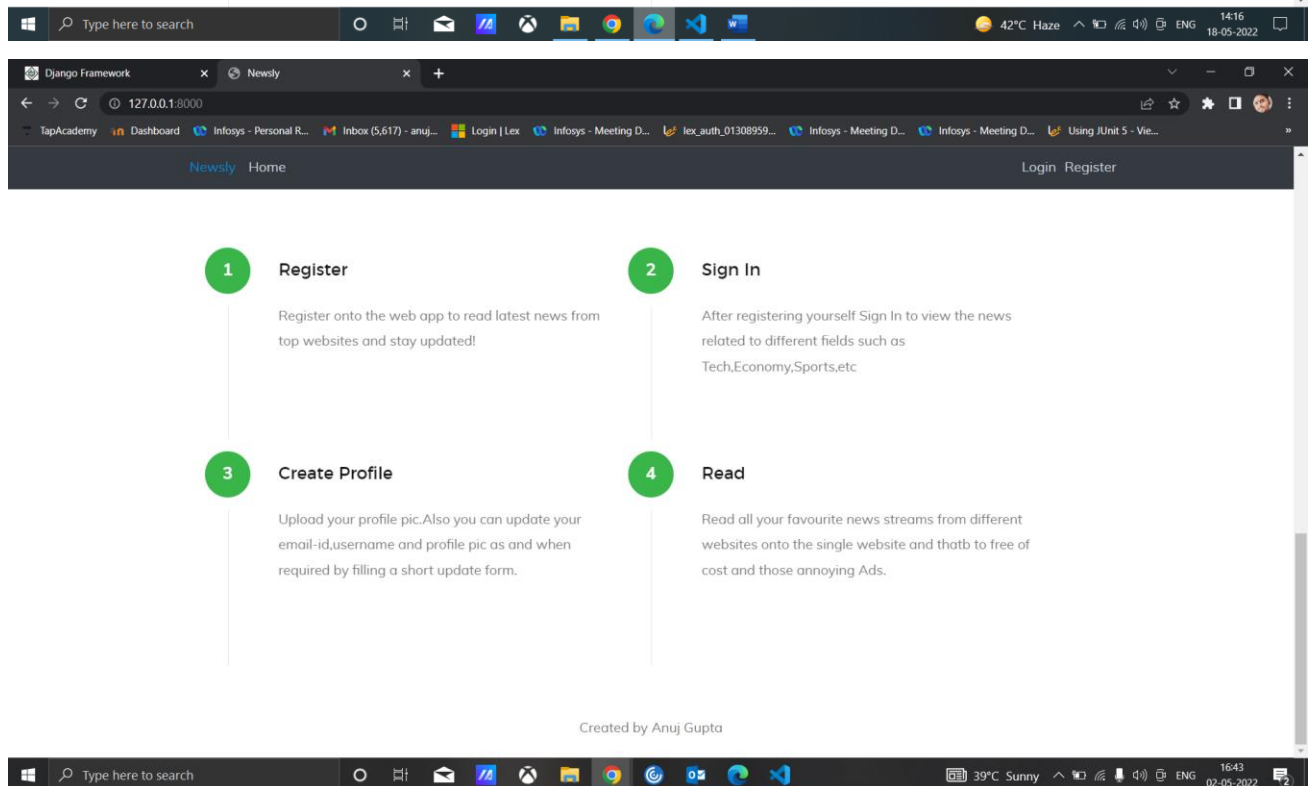
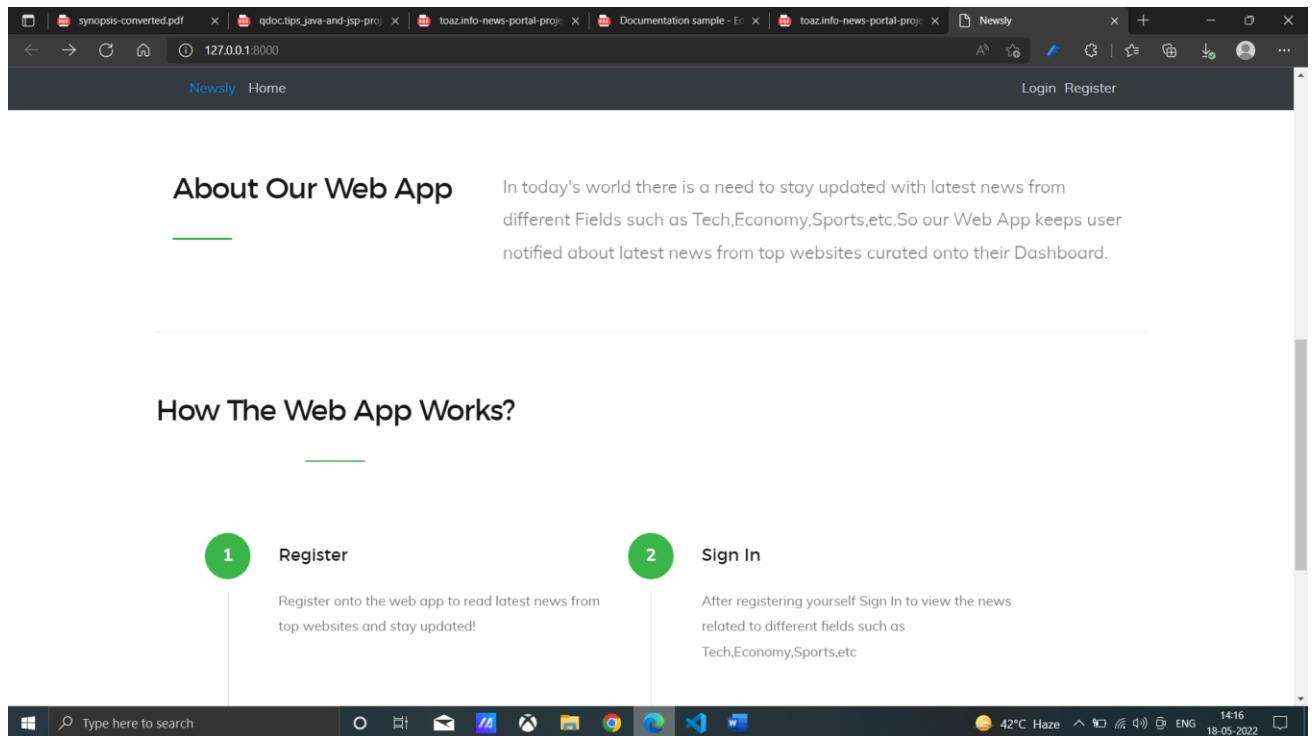




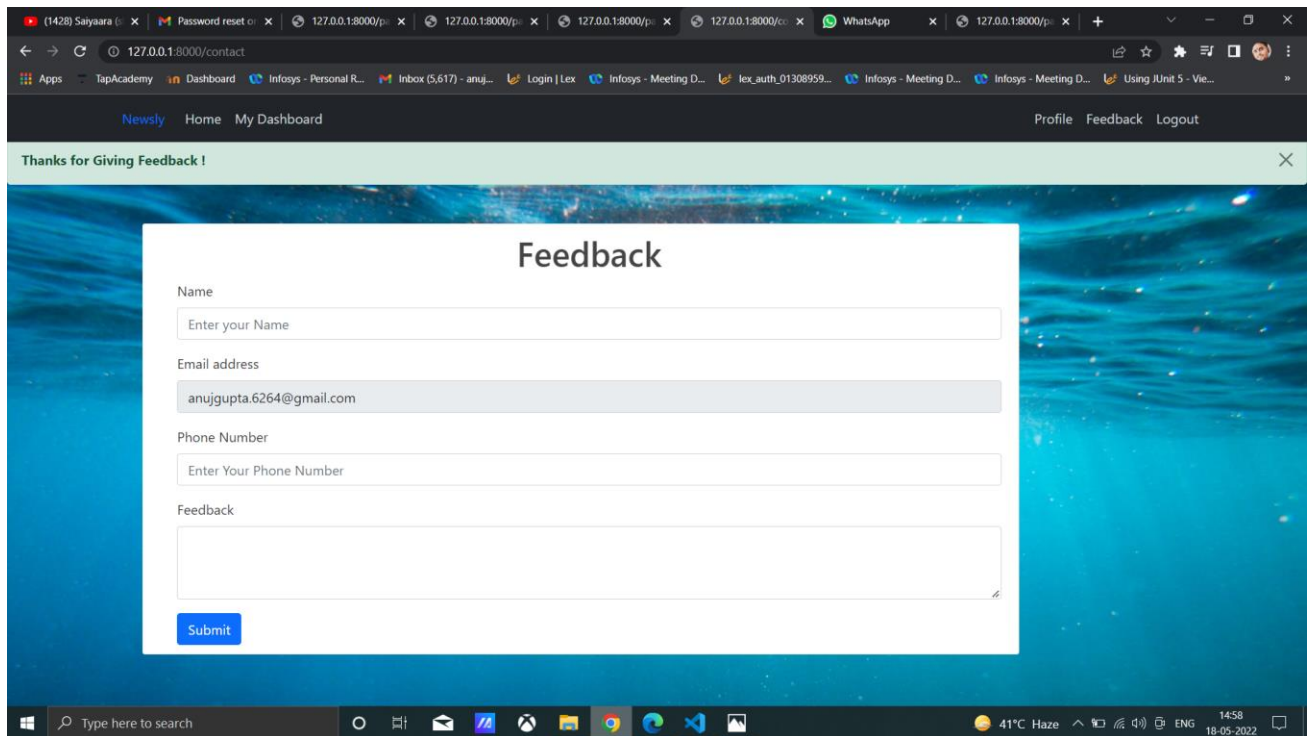
5.Home



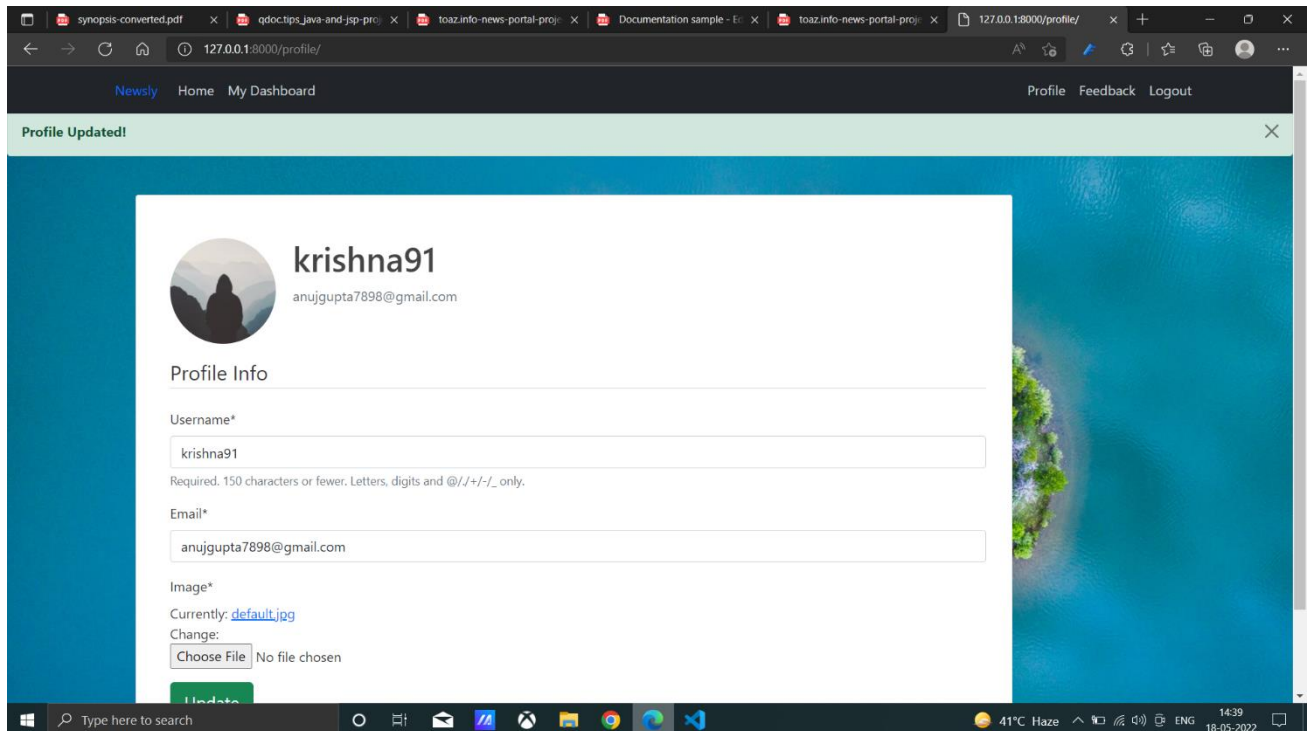
6.About



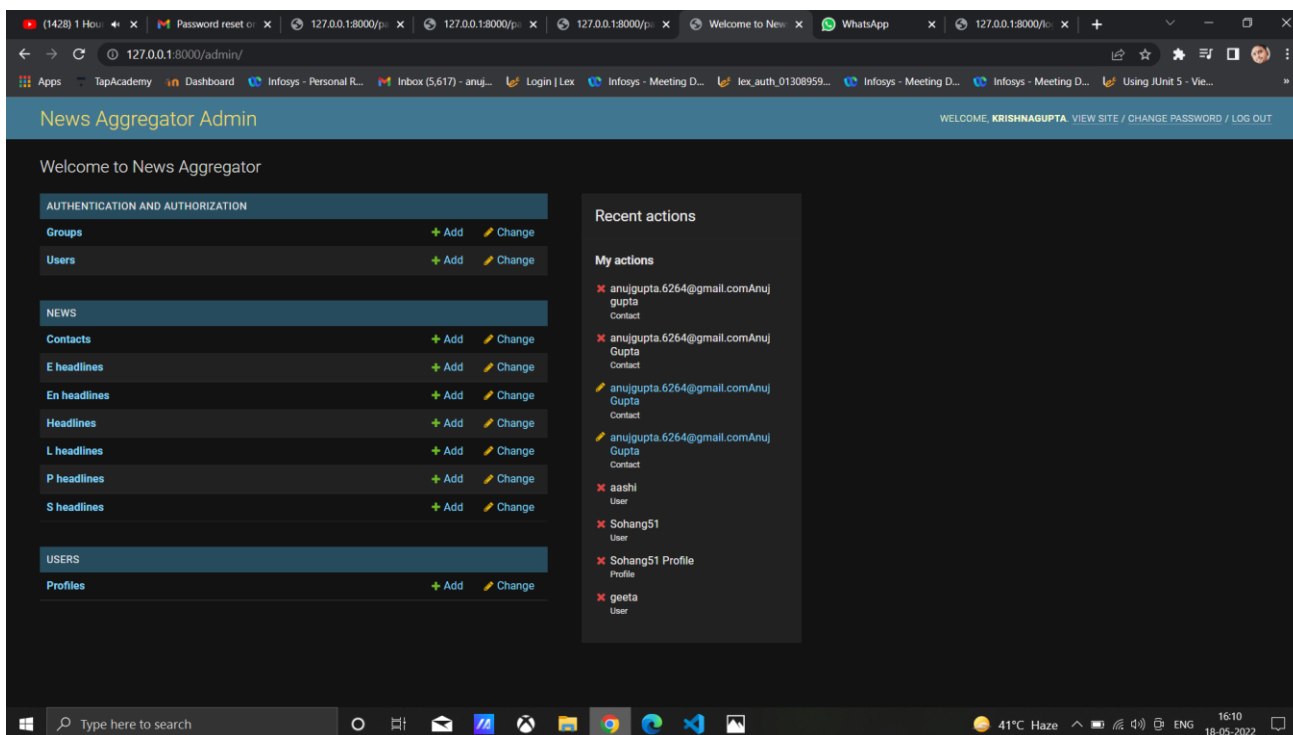
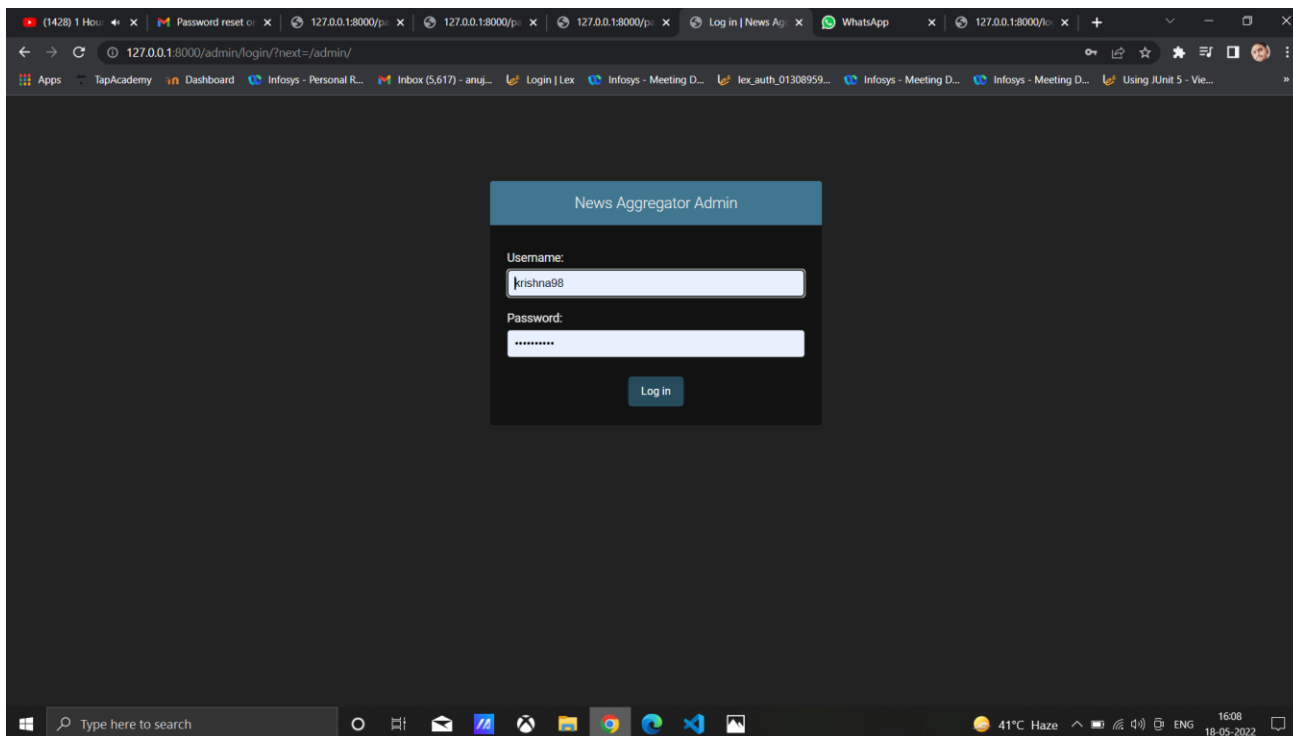
7.Feedback



8.Update Profile



5.3 Admin Side: -



5.4 User Manual: -

User Manual for Admin:

1. Open the web-browser.
2. Click on search-bar and search” <http://127.0.0.1:8000/admin>”.
3. Fill admin username and password and click on **Login** button for signup.
4. To Modify user, click on **User** and then make changes in user recorded if needed.
5. To Add, Delete, modify news, click on **News** and then add new option then fill all the details, after filling all details click on **Save** which will publish that News.
6. To view Feedback, click on **news_contact** and then view all Feedback.

User Manual for User:

1. Open the web-browser.
2. Click on search-bar and search” <http://127.0.0.1:8000>”
3. If you have already site user then click on **Login**, put user Username and password and click on **signup** button for signup, otherwise register yourself.
4. Then choose your topic, to view news related topic.
5. If you want to give some feedback to the website then click on feedback and fill details and click on submit.

6 Conclusion

The problem that undergo for other News sites was a lack of user- friendly environment and several type of facilities. Reader wanted a website that would contain multiple website news and news in different topics.

The solution of the exiting problem is to provide “Newsly” with a user-friendly web-portal, that will provide multiple topic like: Tech, Science, Review, Sports, Politics, Lifestyle, Health, and entertainment from different websites.

The project entitled “Newsly” was completed successfully. The system has been developed with much care and try to free of errors and at the time it is efficient and less time consuming. The main objective of the Newsly System is to provide multiple topic news from different website in one place.

In this project work, an attempt has been made to develop a news or information-based website. We develop this project that helps the people and make them aware so that they can know any news. To establish this website, we use methodologies. To develop this project, we have faced many problems but we hardly tried to develop this project.

The project helped me in gaining valuable information and practical knowledge on several topic like designing web pages using HTML & CSS and JavaScript, usage of responsive templates and management of backend using Python and Django, and database using SQLite.

The entire system is secured and this project helped us to understand about the developed phases of a project and software development life cycle. We learnt how to test different features of a project and lot of things.

7 Future Work

We will work on to improve user interface, which will help to make this web portal more user friendly. Here we will plan to add these features as follow:

1. Readers can choose their language.
2. Readers can choose domain that's news reader wants to read.
3. Readers can be alerted through e-mail about news update.
4. Live support should be enabled.
5. In the news section we will plan to attach video news.

8 Bibliography

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2. <https://www.w3.org/Style/CSS/Overview.en.html>
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