



PARSHWANATH CHARITABLE TRUST'S
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Data Science



BuzzFeed

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Project Guide
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1. Introduction

- Problem Identified :

Existing news consumption platforms often lack the flexibility, feature richness, and user-friendly interface required to meet the diverse needs and preferences of users. These platforms may heavily rely on third-party APIs for content aggregation, limiting their customization options and real-time updates.

- Solution Proposed :

The proposed solution is to provide a flexible and feature-rich platform for news consumption. By leveraging web scraping technology with the beautifulsoup library, the app aims to offer real-time news updates sourced directly from Bing News, reducing reliance on third-party APIs.

2. Objectives

1. To provide flexible and feature-rich based news consumption platform using tkinter GUI
2. To enable real-time news updates for users by web scraping technology.
3. Provide a dynamic dashboard that aggregates real-time headlines offering users an instant overview of global events.
4. Develop a robust search option to empower users to find specific topics or keywords, enabling efficient and precise news discovery .

3. Scope

- **Inclusive and Diverse Platform** – BuzzFeed aims to serve a broad audience with varied interests and information needs.
- **Passionate News Enthusiasts** – Offers breaking news, in-depth analysis, and diverse perspectives tailored to engaged readers.
- **Casual News Consumers** – Provides a user-friendly interface and simplified access to trending topics and major developments.
- **Global Citizens and Expatriates** – Delivers comprehensive international news coverage for a worldwide audience.

4. Feature /Functionality

- **Personalized News Feed** – Users can access tailored news content based on their interests and preferences for a more engaging experience.
- **Search & Discovery** – The Search News feature allows users to find specific articles or topics with ease, fostering exploration and deeper engagement.
- **Profile & Bookmark Management** – Users can update their profile, customize preferences, and save favorite articles for easy access later and get emails.

5. Outcome of Project

1. User can Register and Login
2. User can view the latest news
3. User can search the news according to their preference
4. User can read news based on selected categories

6. Technology Stack

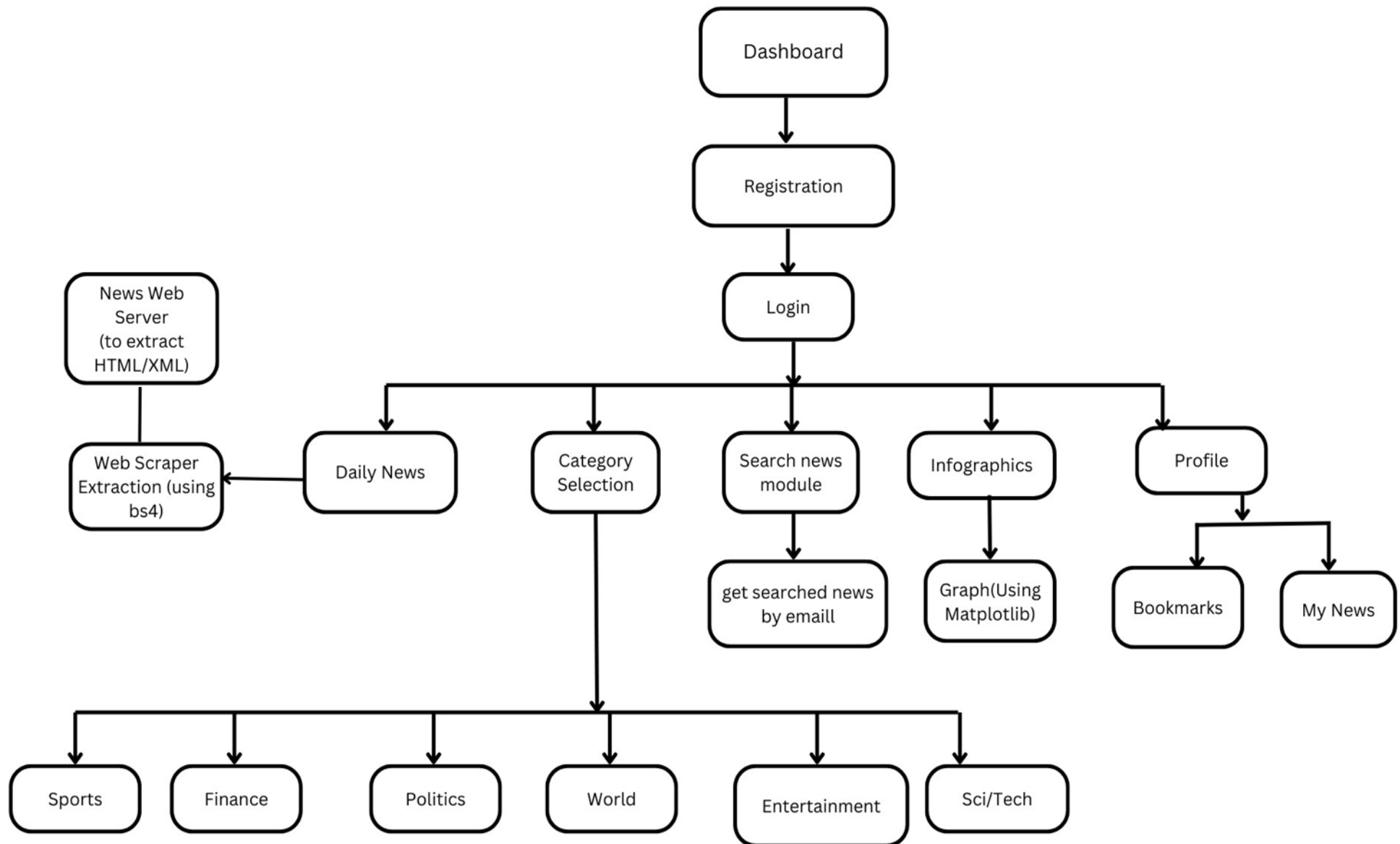
Frontend Technology :

- Tkinter : Base of GUI Application
- Customkinter : For Additional Features and enhanced customization and Design
- Webview : Cross-platform to embed web content into

application Backend technology :

- Bs4 (Beautiful Soup) : Parsing HTML / XML for web scraping purposes
- Requests Library : to make HTTP requests for retrieval of web page
- Matplotlib : For Visualization of Data
- SQL : structured storage for user details and relevant news information

7. Block Diagram



8. Result

BuzzFeed

LOGIN

Email :

Password :

Login

Register Here

BuzzFeed

Registration

Name :

Email address :

Password :

Interest :

| | |
|--|---------------------------------------|
| <input type="checkbox"/> Sports | <input type="checkbox"/> Finance |
| <input type="checkbox"/> Entertainment | <input type="checkbox"/> World |
| <input type="checkbox"/> Politics | <input type="checkbox"/> Science/Tech |

Register Here

8. Result



8. Result

News App Dashboard

Dashboard

Search News

News by Category

Infographics

My Profile

Log out

News18 · 3h

ChatGPT's new image generator is wild: 5 ways to create fascinating images by News18 · 3h

Govt confirms Justice Varma's transfer, SC disposes FIR petition by The Times of India · 11h

Virat Kohli Cannot Stop Smiling As He Hugs And Chats With MS Dhoni, Fans Gush Over 'Special Bond' by India Today · 1h

This Parsi Family Business Is Set To Develop Engine For India's 5th-Gen Fighter Jets by News18 · 2h

Railway Minister approves new Tambaram-Rameswaram train to boost connectivity by Hindustan Times · 5h

Top American-made cars dodge Trump's 25% tariffs by Zee News · 4h

bookmark confirm

8. Result

Search and Get news

Search News

Dashboard

News by Category

Infographics

My Profile

Log out

Enter keyword to search for that news

banglore

search

Decision on sky deck in Bangalore University after consultation: Karnataka Higher Education Minister M C Sudhakar

IIM Bangalore 50th Convocation: 798 Students Graduate, 8 Win Gold Medals

Bangalore University report red flags setting up UVCE in Jananabharathi campus, cites 'ecological damage'

BEML Secures Rs 405 Crore Contract for Bangalore Metro Expansion

Bangalore Rental Crisis: 2BHK Rent in Koramangala Now Matches New York's; Flat Rent Surge Shocks Netizens

Chennai vs Bangalore Live Cricket Score, Match 8, Indian Premier League, 2025, March 28, 2025

Gold Price in Bangalore Today

8. Result

CTk

News Category

Dashboard

Search News

Infographics

My Profile

Log out

News category

☒ Sports

☐ Finance

☐ Entertainment

☐ World

☐ Politics

☐ Science/Tech

Sports

Dhoni should be promoted up the order: Watson

'Didn't lose by a big margin': CSK captain Ruturaj Gaikwad defends his side following RCB defeat

23 out of 24: Rohit Sharma explains how India set up ICC event juggernaut

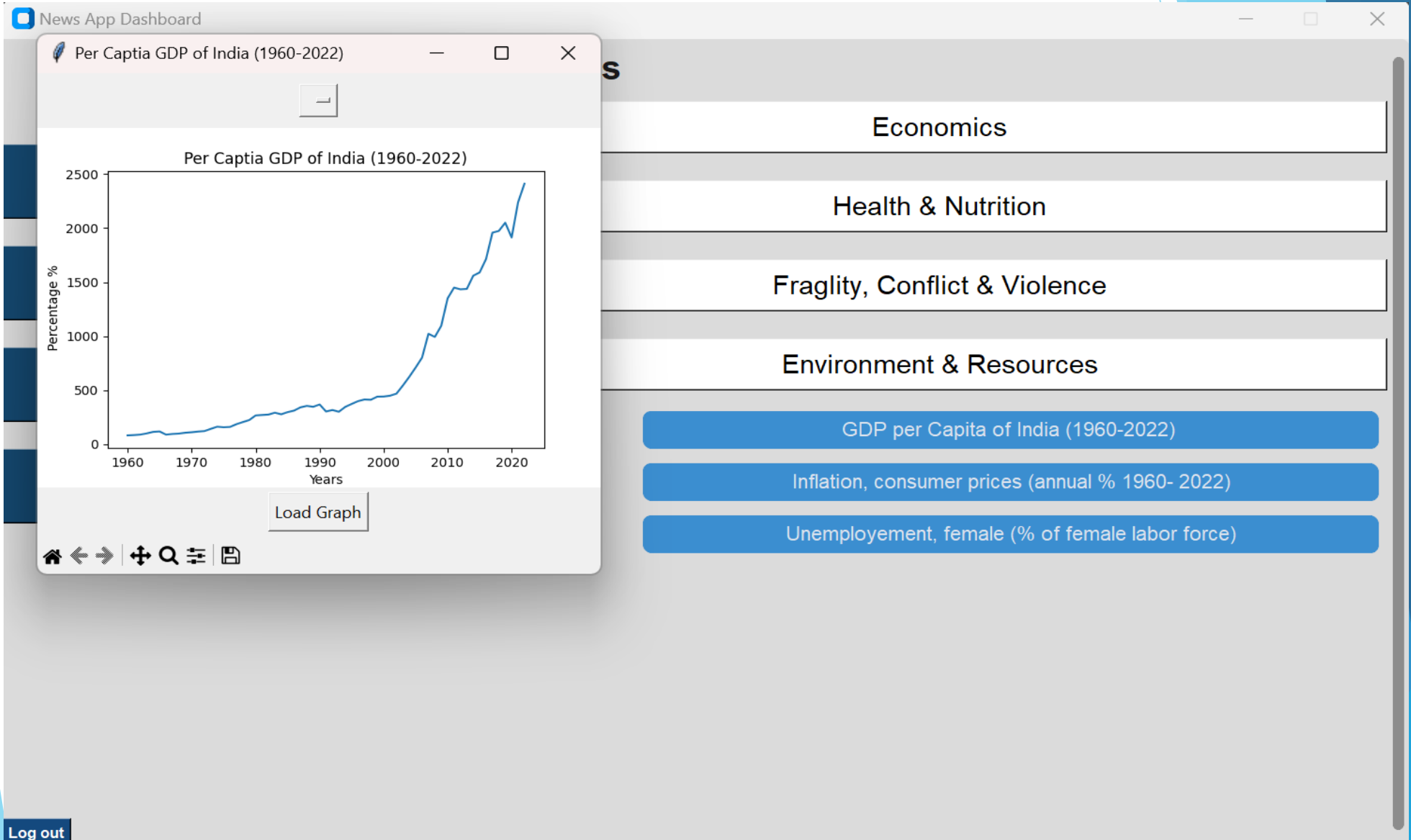
Don't discount us: CSK Coach Stephen Fleming defends his team after 50-run loss to RCB at home

GT vs MI Playing 11 Prediction, IPL 2025: How will Mumbai fit in Hardik Pandya?

MS Dhoni at No. 9? Former cricketers say it 'didn't make sense'

IPL 2025: Virat Kohli Hilariously Grooves During CSK vs RCB Clash, Leaves Ravindra Jadeja In

8. Result



8. Result

News App Dashboard

My Profile

Dashboard

Search News

News by Category

Infographics

Log out

My Profile

Name : sujal

Email : sujal@gmail.com

Interest : Sports, Finance

Bookmarks :

Tata Group becomes global supplier for Tesla:
report by India Today · 5h

MS Dhoni's stumping in CSK vs MI triggers meme
rush: Gone in 0.12 seconds by India Today · 12h

"I'll pay it out of my own pocket..." Donald Trump
offers to pay NASA astronauts Sunita Williams
and Butch Wilmore's overtime by Hindustan
Times · 4h

Story behind India's 1st indigenous MRI machine,
that could make cancer more affordable by The

9. Conclusion

- BuzzFeed offers a user-friendly, real-time news platform with personalized content.
- Web scraping ensures timely updates without relying on third-party APIs.
- Features like bookmarking, search, and infographics enhance user engagement.
- Email updates and custom feeds provide a seamless news experience.

References

- ▶[1] Haixia Lv, “Design and Implementation of Domestic News Collection System Based on Python”, Shandong University of Finance and Economics, 2021
- ▶[2] Vidhi Singrodia Amity University, Newtown, Kolkata ,” A Review on Web Scrapping and its Applications” , International Conference on Computer Communication and Informatics. (ICCCI) ,2019
- ▶[3] Moaiad Ahmad Khder, “Web Scrapping or Web Crawling: State of Art, Techniques, Approaches and Application”, Int. J. Advance Soft Compu. Appl, Vol. 13, No. 3,Applied Science University, Bahrain

Thank You...!!