

PackTravel 2.0: Enhancing Your Carpooling Experience

The Future of Shared Travel



PackTravel is an innovative web application designed to connect individuals looking to share rides, reduce travel costs, and enhance the commuting experience. Our mission is to foster a community that prioritizes cost-effective and eco-friendly travel options.



REPO LINK



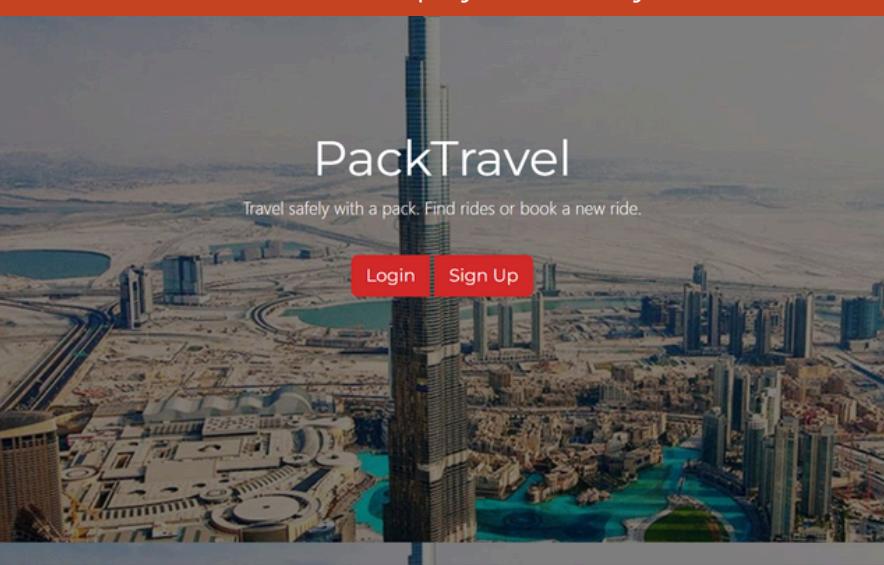
DEMO LINK

TECH STACK



TEST CASE ADDITIONS

- Verify that attempts to log in with incorrect credentials return an appropriate error message.
- Ensure users can log out successfully and are redirected to the correct page afterward.
- Verify that users can rate and review rides, and that this feedback is stored and displayed correctly.



OBJECTIVES

REDUCE TRAVEL COSTS

PackTravel aims to help users lower their commuting expenses by promoting shared rides. Whether it's carpooling with personal vehicles, sharing a taxi, or organizing a bus ride, the application makes it easier for travelers to connect with others, cutting down on individual transportation costs while promoting eco-friendly travel.



IMPROVE RIDE COORDINATION

PackTravel simplifies the process of organizing and joining shared rides by offering features like ride creation, ride requests, and a dedicated forum for each trip. This helps users manage logistics and communicate effectively with others in the ride group, ensuring smooth coordination for both drivers and passengers.



LEVERAGE TECH FOR ROUTE AND FARE OPTIMIZATION

Integration with Google Maps allows users to view routes, distance, and duration of trips, making it easier to plan commutes. Additionally, the machine learning-powered cab fare estimation tool helps users get accurate fare predictions based on time and date, enabling more informed decisions when selecting transportation options.



ENHANCE USER EXPERIENCE

The project is designed to make the overall user experience more intuitive and streamlined. Users can quickly create rides, send requests, accept or decline passengers, and receive notifications when their ride reaches full capacity. The app is tailored to reduce friction in ride management, ensuring that both ride owners and riders enjoy a seamless experience.



ENABLE SCALABILITY

PackTravel is built with scalability in mind. By designing the backend as stateless RESTful APIs and implementing horizontal scaling with MongoDB, the system can handle increasing loads of data and users. Integrating features like content delivery networks (CDNs) and message queues ensures that PackTravel can scale efficiently as the user base grows, offering faster load times and better system performance.



METHODOLOGY

PLANNING AND SYSTEM ARCHITECTURE

The initial phase focused on identifying user needs through market research and surveys to create a ride-sharing solution. The architecture was designed for scalability, utilizing a microservices approach with RESTful APIs for seamless communication between components. MongoDB was chosen for its flexibility and ability to handle large data sets, while the Google Maps API provides critical route visualization and distance calculations.

FRONTEND DEVELOPMENT

The user interface was developed with a focus on usability and responsiveness. Using HTML, CSS, JavaScript, and Bootstrap, the design allows for quick navigation and easy access to features such as ride creation, joining rides, and searching for routes. User experience was prioritized by implementing intuitive controls, an engaging layout, and smooth animations to enhance interaction with the application.

BACKEND AND DATA HANDLING

Django served as the backbone for the backend services, handling user authentication, ride logistics, and database interactions. It manages complex business logic while ensuring secure access to user data. Additionally, machine learning algorithms were implemented to analyze historical ride data, enabling accurate fare predictions for cab rides based on various factors like time and date, thereby enhancing user decision-making.

TESTING AND CONTINUOUS FEEDBACK

The application underwent rigorous testing, with over 140 test cases designed to validate core functionalities and ensure system stability. This phase included unit tests, integration tests, and user acceptance tests. Post-deployment, the team established feedback loops to gather user insights, allowing for ongoing improvements and the development of new features for subsequent versions, such as ride merging and enhanced security measures like two-factor authentication.

KEY UPGRADES IN CURRENT PROJECT

FUTURE SCOPE

ENHANCED USER PROFILE

The user profile functionality now has additional options where users can opt in to having pet friendly rides as well as an option to choose whether they are more comfortable with female drivers. Due to compliance and safety issues for now we have limited the scope of the latter. Further now signing up as a user directly sets the user preferences to their default values, which are updatable through the user section.

RIDE HISTORY

The Ride History feature in PackTravel provides users with a personalized overview of their completed rides, offering transparency and ease of access to past journeys. It ensures that only logged-in users can view their ride history, maintaining privacy and security. By integrating MongoDB for efficient data retrieval and Django's session management for user authentication, this feature delivers a seamless and secure experience. Users can view key ride details, such as date and participants, in an intuitive format.

MACHINE LEARNING-DRIVEN RIDE RECOMMENDER

Are you tired of getting excited for your ride only to find that your passenger is a boring person incapable of holding a conversation and insists on smoking in the car? Worry not, for our new ride recommendation system will match you with people of similar interests. Using advanced machine learning techniques we can now recommend to you the rides we think you will most enjoy. Just update your user profile to reflect your interests and preferences and wait while we find your ideal ride.

REAL-TIME NOTIFICATIONS

Managing group rides is now more convenient with the addition of real-time email notifications for ride owners. Whenever a ride reaches full capacity, the system automatically sends out an email to the ride owner, ensuring they stay informed without needing to check the status of their ride manually. This automation saves time and reduces the chance of communication lapses, enabling ride owners to focus on other trip logistics. It also creates a seamless experience for users trying to join rides, as the owner can promptly respond to new requests or adjust capacity as needed. **Users can see updates about their booking and ride status if their ride requests are accepted.**

IMPROVED TEST COVERAGE

Improved the test coverage of PackTravel from 80% to 84% by adding comprehensive test cases for both new and existing features. All newly implemented functionalities, such as Ride History, Notification updates were thoroughly tested to ensure reliability and robustness. Additionally, we identified and addressed gaps in test coverage for older features, such as feedback, that were previously untested, enhancing the overall quality of the application. This effort not only strengthens the codebase but also ensures a smoother, more reliable experience for users by proactively catching potential issues during development.

MOBILE APPLICATION

A mobile app for PackTravel would enhance accessibility by offering a user-friendly interface optimized for on-the-go use. Features like real-time notifications, GPS tracking, and quick ride requests would make the platform more convenient and engaging for users.

PAYMENT INTEGRATION

Adding secure payment integration to PackTravel would allow users to split ride costs seamlessly, enhancing convenience and transparency. This feature would streamline transactions, reduce cash-handling hassles, and enable automated fare calculations, improving the overall user experience.

RIDE HISTORY INSIGHTS

Enhancing the Ride History feature with analytics would provide users insights into their carpooling habits, such as total rides, miles traveled, and cost savings. This addition would promote user engagement while emphasizing the environmental benefits of shared commuting.



Introduction

DollarBot is a user-friendly Telegram bot designed to simplify expense management. With intuitive commands, it enables seamless tracking of daily and group expenses while ensuring clear accountability. Users can customize categories, set budgets, and gain insights through detailed analytics and visualizations.

Enhanced with advanced features, DollarBot uses Computer Vision and OpenCV to capture expenses from physical bills, eliminating manual entry. Interactive pie and line charts provide a clear view of spending patterns, while a built-in currency converter supports global users. Its multi-user functionality streamlines group expense tracking, generating PDF and CSV reports for easy sharing.

Workflow

Login/Setup: Upon initiating a conversation with DollarBot on Telegram, users can follow a quick setup to personalize their experience. Existing users can begin managing expenses immediately, while new users receive guidance on available commands and features.

Expense Input: Users can add expenses by typing commands like `/add` followed by the amount and category, e.g., `/add $20 groceries`. Users can upload pictures of physical bills, which are processed using Computer Vision and OpenCV to extract key details like amounts and item names, minimizing manual effort.

Expense Tracking and Visualization: Users can view a breakdown of their spending patterns by querying daily or monthly totals. Advanced data visualizations, including pie charts and line graphs, help users analyze their spending habits at a glance.

Group Expense Management: Users add group expenses, specifying participants and amounts. The bot calculates individual shares and tracks "who owes whom. Users can edit group expenses later if adjustments are needed.

Budget Management: Users can set both overall and category-specific budgets. DollarBot continuously monitors expenditures and sends notifications when spending approaches or exceeds set limits.

Currency Conversion: For international users, DollarBot converts foreign currencies into the user's preferred currency, ensuring consistency in expense tracking.

Reports and Notifications: Users can generate detailed **PDF and CSV reports** that summarize expenses, budgets, and group balances. The bot also sends email notifications to keep users updated on their financial activities.

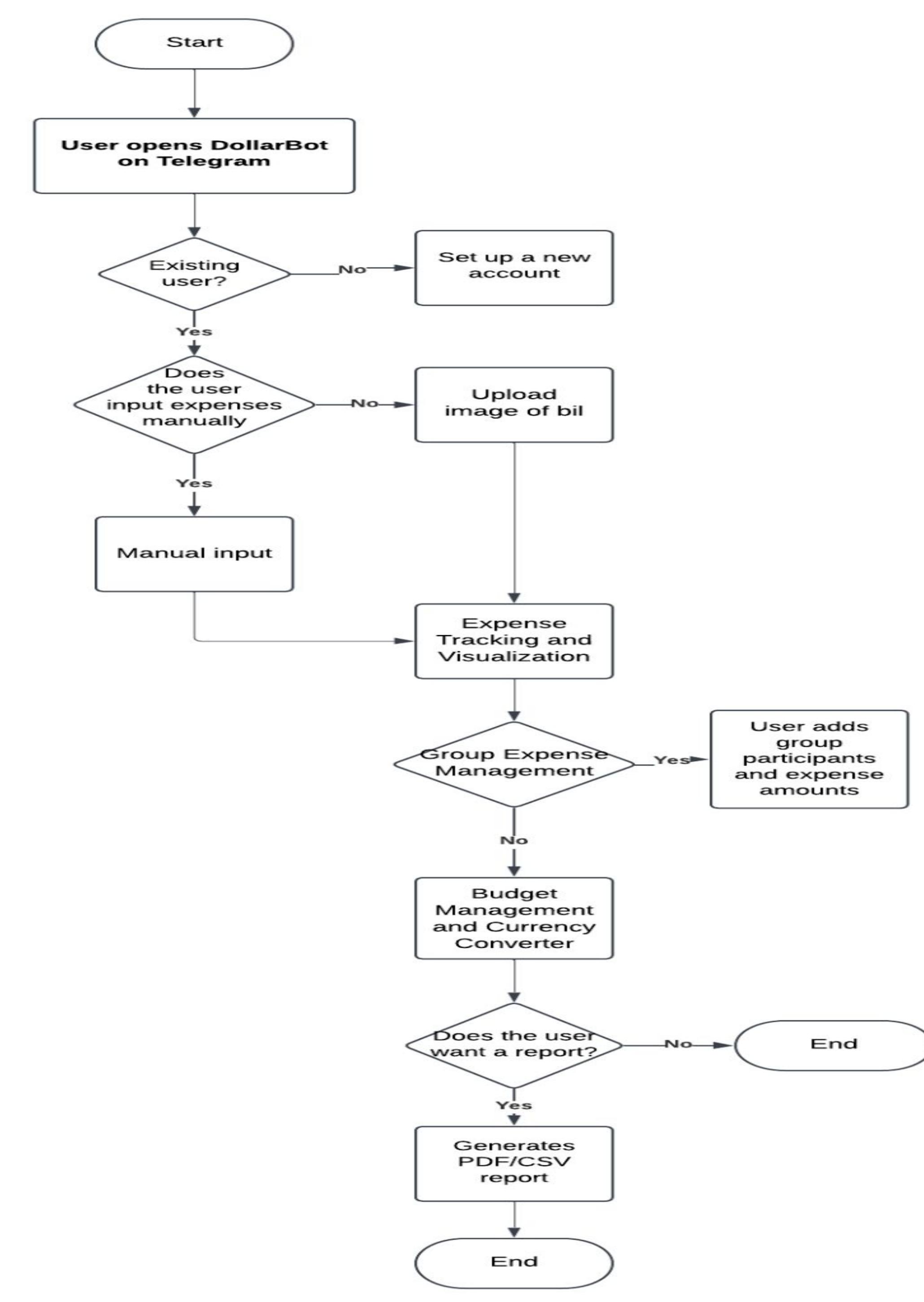
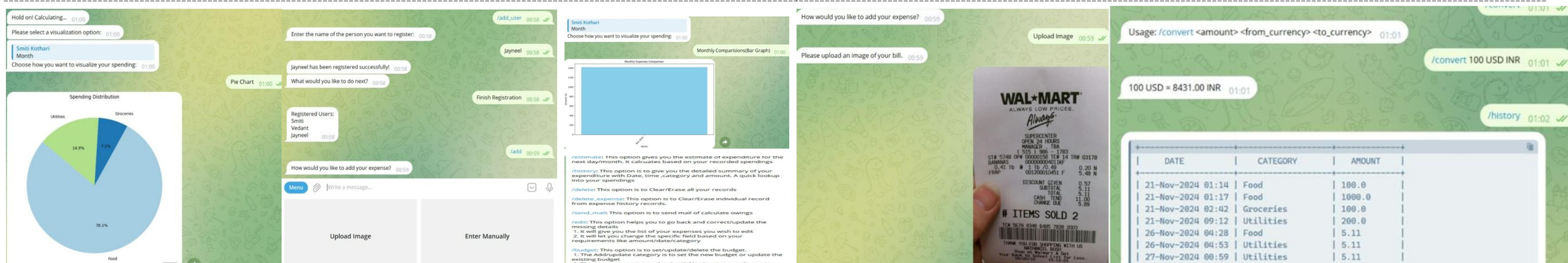


Fig 1: System Workflow

Enhancements

- Image Recognition for Expenses:** Upgraded the expense capture feature by leveraging OCR (Optical Character Recognition) with Computer Vision and OpenCV. This enhancement ensures accurate detection of text from physical bills, even when text is partially obscured or in the background, providing a robust and reliable expense capture solution.
- Advanced Data Visualizations:** Added interactive charts, such as pie charts and line graphs, to provide users with a clear and detailed view of their spending habits. These visualizations help users identify patterns and make better financial decisions.
- Currency Converter Tool:** Enhanced the currency conversion feature to allow users to not only automatically convert expenses in foreign currencies but also manually enter amounts for conversion. This makes tracking international expenses easier and more flexible for users across different regions.
- UI/UX Improvements:** Enhanced the user interface to ensure an intuitive and visually appealing experience. Improvements include streamlined navigation, better organization of features, and a responsive design for various devices.

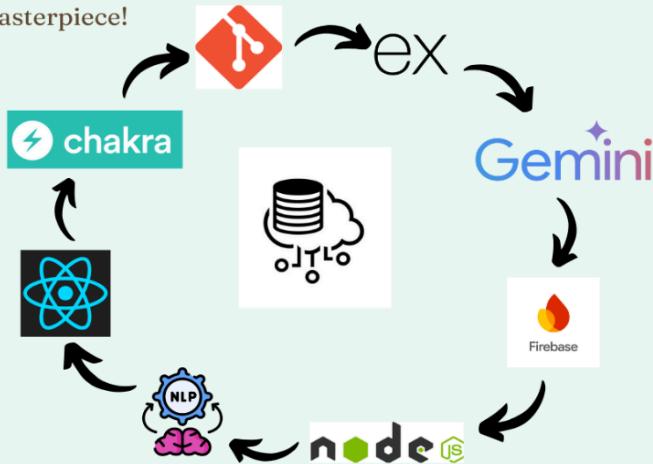
- Robust Cloud Database Integration:** Plan to integrate MongoDB for efficient and scalable data storage and retrieval. This enhancement will ensure that user data, including expense records and spending patterns, is stored securely and accessed quickly, even as the user base grows.
- AI/ML Expense Prediction Model:** Introduce an AI-driven expense prediction model to intelligently analyze past spending trends and predict future expenses. This will help users anticipate upcoming costs, enabling better financial planning and budgeting.
- AI-Powered Budgeting Assistant:** The future iteration of DollarBot will introduce an intelligent budgeting assistant that leverages AI to provide personalized financial advice.
- Public API for Expense Management:** To expand the reach of DollarBot and offer more flexibility to users, we plan to develop a public API that allows other developers or businesses to integrate the expense tracking system into their applications.



Poster

ChefGPT: Your Ultimate Kitchen Companion

ChefGPT is your ultimate kitchen companion, transforming your cooking experience with smart, AI-driven recipe suggestions based on the ingredients you have on hand. Simply input your pantry items, and ChefGPT instantly recommends mouthwatering dishes tailored to your inventory, reducing food waste and saving time. Whether you're a beginner or an experienced chef, ChefGPT offers step-by-step instructions, personalized meal plans, and the ability to customize recipes to suit your dietary needs. With features like secure profiles, recipe bookmarking, and an intuitive interface, ChefGPT makes cooking an exciting, hassle-free adventure. Unlock your kitchen's full potential with ChefGPT—where every meal is a masterpiece!



Future Scope

- Social Cooking & Community Engagement!** Share recipes, post culinary creations, and engage in challenges with a vibrant cooking community! 📱💡
- Nutrition Tracking & Meal Logging!** Sync with fitness trackers to log meals and track daily calories and macronutrients! 🥪📊
- Real-Time Ingredient Availability!** Check ingredient stock instantly and order from local stores or online marketplaces! 🛒💡
- Ingredient Substitution Suggestions!** Find alternative ingredients when you're missing something for your recipe! 🍽️📋
- Meal Reminder Notifications!** Get timely reminders for meal prep, cook times, and important recipe steps! 🕒💡
- User Recipe Rating & Reviews!** Rate, review, and share feedback or tips with the ChefGPT community!

What's New?

- Intelligent Meal Planning & Customized Meal Plans!** Create weekly menus and tailor meals to your dietary goals with personalized macronutrient tracking! 🍴📊
- Enhanced Multi-Ingredient Search & Smart Shopping Cart!** Discover recipes by combining pantry staples and add ingredients directly to your shopping cart for a smooth grocery trip! 🛒🍕
- Voice-Activated Cooking & Recipe Videos!** Enjoy hands-free cooking with voice commands and follow along with YouTube videos for expert guidance! 🎤🎥
- Streamlined Navigation & Blazing-Fast Performance!** Experience seamless navigation and lightning-fast load times for effortless recipe browsing! ⚡📱
- Dark Mode for Comfort!** Browse recipes day or night with dark mode to reduce eye strain and enhance user comfort! 🌙💻
- Sync Across Devices!** Access your profiles, bookmarks, and shopping lists across all devices, anytime, anywhere! ☎️📱
- Enhanced Testing Framework!** Our app is now robust with 90 extensive tests, ensuring seamless functionality across platforms and heavy loads! ✅✅



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Manav Divyesh
Shah
Srimadh V Rao
Akui Devali



86 NO MORE

A Kitchen Intelligent Solution

Group 73

Priyanshu (pmalavi)
Vaishvi (vshah24)
Akash (avbhanda)

INTRODUCTION

Imagine a world where managing inventory and dining experiences are seamless. 86-No-More makes it happen!

For restaurant owners, 86-No-More simplifies inventory tracking by predicting ingredient shortages based on past usage, sending real-time notifications for low stock or expirations, and providing actionable insights through visual data like graphs. The app minimizes waste, maximizes profits, and keeps menus consistently available.

Customers benefit from a streamlined ordering process, featuring real-time menu updates and personalized experiences. They can place orders, select quantities, and provide feedback directly through the app. With integrated email alerts and smart recommendations, 86-No-More ensures a flawless experience for everyone involved.

FEATURES

- Automated Allergen and Dietary Filter:** Customers can view menu items tailored to their dietary restrictions or allergies, ensuring safe and enjoyable dining experiences.
- Feedback and Inventory Notifications:** Restaurant owners receive email alerts when customers rate their dining experience. Also, they get notifications when inventory is running low or approaching expiry dates.
- Password Encryption:** Robust encryption ensures user credentials are securely stored, maintaining data privacy and security.
- Calorie Prediction with GENAI Model:** The app provides estimated calorie counts for menu items using AI, helping health-conscious customers make informed decisions.
- Signup for Customers and Restaurant Owners:** Separate signup processes for customers and restaurant owners ensure personalized access to the app's features.
- Customizable Menus and Average Ratings:** Restaurants can create and manage their own menus, with average ratings displayed for each menu item.
- Mobile Integration and Seamless Ordering:** Manage operations and enable seamless customer ordering with a mobile-friendly interface, bringing the app's features right to your pocket.
- Removed Deprecated Code:** Improved the codebase by removing outdated and unsupported libraries.
- Forgot and Reset Password:** The pages were created and mails are sent to the user to change the password.

The dashboard includes a food image upload section, a calorie prediction summary (Total Calories: 550), and a detailed food item breakdown. Below this is a weekly meal plan grid for days 1 through 7, showing breakfast, lunch, and dinner options. A central message highlights food waste statistics: "America loses up to 218 BILLION dollars from wasted food. Restaurants in the United States are wasting 22 to 33 BILLION pounds of food a year." A call-to-action button says "Let's change that!"

The sidebar links include Menu, Feedback, Awareness, Calory Detector, and Health Advisor. The main area shows a sign-up form for a Customer role, with fields for Full Name, Email, and Password. It also displays a "good food" card with dish details and a "Select Quantity" dropdown.

TEST CASES: 30+ new test cases passed with frontend, backend and API checks

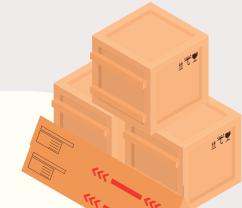
GITHUB REPO



DEPLOYED APP



TECH STACK



1. POSTER

WolfTrack 7.0

GET HIRED!



GROUP 93
Pankaj Manoharlal Thakur
Firasat Hussain Mohammed
Utkarsh Sharma

GITHUB REPO

ABOUT

WolfTrack 7.0 is a comprehensive platform designed to simplify and elevate the job and internship application process. With advanced tools like a **Resume Builder**, **AI-Based Resume Analyzer**, **Job Filters**, and **ATS Scoring**, WolfTrack empowers users to create standout resumes, evaluate their job fit, and streamline applications efficiently. Built using **Python**, **Flask**, **Bootstrap**, **AWS**, and **SQLite**, it provides an intuitive, reliable, and user-friendly experience for students and professionals aiming to excel in their career journey.

SNAPSHOTS

Resume Analysis Result

Overall match score: 85/100

The applicant has a strong background in software development, with a focus on AI and machine learning, which align well with the job requirements.

Key matching skills and qualifications:

- AI and machine learning: The applicant has extensive experience in AI and machine learning, as demonstrated by their work on projects involving cloud platforms, machine learning models, and AI-powered applications.
- Cloud platforms: The applicant has experience with cloud platforms, specifically Azure, Google Sheets, and AWS Lambda, although their resume does not mention specific projects.
- Problem-solving skills: The applicant's ability to solve complex problems is evident in their work on the active tagging system, demonstrating their technical problem-solving skills.
- Communication skills: The applicant's ability to communicate technical concepts to both technical and non-technical stakeholders is evident in their resume.

Missing or gaps in qualifications:

- The applicant has some specific experience with generative AI technologies or LLMs but the job description requires more experience.
- While the applicant has experience with Python, they do not specifically mention experience with Python for AI and natural language processing.

Specific suggestions for improvement:

- The applicant could gain more experience with generative AI technologies and LLMs to better align with the job requirements.
- The applicant could focus on AI and machine learning projects, such as NLP or computer vision, as these are key components of the job.
- The applicant could consider past experiences with AWS, Azure, or GCP to demonstrate their proficiency with cloud platforms.
- The applicant could emphasize their leadership and mentorship experience in their application, as this is a key responsibility of the role.
- The applicant could provide more specific examples of how they have implemented best practices for AI model deployment, monitoring, and maintenance.

[Analyze Another Resume](#) [Back to Home](#)

Resume Analyzer

Job Title: Artificial Intelligence Engineer

Job Description: About the job Who are we? For the past 20 years, we have provided many Digital Experience to the Fortune 500. Since 1999, we have grown from a few people to more than 1000 employees. We are looking for a highly motivated and experienced individual to join our team as an Artificial Intelligence Engineer. This role offers many exciting opportunities for career growth. For a brief 1-minute video about us, you can check out <https://youtu.be/abcde123456>. Mission: We are an equal opportunity employer and value diversity at our company. We do not discriminate on the basis of race, religion, color, national origin, gender, sexual orientation, age, marital status, veterans status, or disability status. We bring out the best in each other.

Location: Charlotte NC (On-site)

Responsibilities: Design and architect a scalable, secure, and efficient internal workflow solution using cutting-edge AI and natural language processing technologies. Develop proof of concepts and prototypes to validate architectural decisions. Lead the integration of AI systems with legacy systems. Advocate for AI alignment with business objectives. Implement best practices for AI model deployment, monitoring, and continuous improvement. Stay up-to-date with the latest advancements in AI, Generative LLMs, and ChatGPT. Incorporate innovative features into the chatbot architecture.

Required Qualifications:

- 5+ years of experience in software development, with a focus on AI and machine learning.
- Strong understanding of AI architecture and implementation, including AI model selection, tuning, and optimization.
- Strong hands-on experience with Python, LLMs, and Generative AI technologies.

Upload resume (PDF only): Choose file: Firasat Hussain Mohammed Resume.pdf

[Analyze](#) [Back to Home](#)

Resume Analysis Result

Overall Match Score: 85/100

The applicant, Utkarsh Sharma, demonstrates a strong match for the Data Scientist position with a score of 85/100. He has a relevant educational background in computer science and a Bachelor's degree in Computer Science from North Carolina State University.

Key matching Skills and Qualifications:

- Education: Utkarsh has a Master's Degree in Computer Science from North Carolina State University and a Bachelor's degree in Computer Science from North Carolina State University.
- Technical Skills: Utkarsh has an extensive background in data science, machine learning, and AI, with experience in various frameworks and tools.
- Work Experience: Utkarsh has relevant work experience in data science and machine learning, including roles at companies like Google and Amazon.
- Publications: Utkarsh has published several research papers in the field of data science and machine learning.

Missing or gaps in Qualifications:

- The applicant lacks experience in AI and machine learning, which are critical for the Data Scientist role.
- The applicant lacks experience in data engineering and ETL processes, which are essential for data science workflows.
- The applicant lacks experience in AI and machine learning, which are critical for the Data Scientist role.

ATIS Compatibility Score: 85/100

This score indicates how well your resume might perform in an AI-powered job search system. The score is based on how well the resume matches the job requirements and the specific skills and experiences listed in the job description.

[Calculate ATIS Score](#) [Analyze Another Resume](#) [Back to Home](#)

Job Search

Job Role:

Minimum Salary:

Maximum Salary:

Location:

[Search](#)

NEW FEATURES

- Resume Builder:** Create professionally formatted resumes effortlessly with a simple and user-friendly tool.
- AI-Based Resume Analyzer:** Analyze resumes against job descriptions with AI-driven feedback to identify strengths and gaps.
- Advanced Job Filters:** Streamline job searches using filters based on position, location, and user preferences.
- ATS Scoring:** Evaluate and optimize resumes for Applicant Tracking Systems (ATS) to improve job application success.



SELLING POINTS

- All-in-One Platform:** Combines resume building, AI analysis, job filtering, and ATS scoring in a single, user-friendly tool.
- AI-Powered Insights:** Leverages cutting-edge models like Mistral 7B for precise resume feedback tailored to job descriptions.
- Efficiency Boost:** Streamlines job search and application processes, reducing time spent by 40% with advanced filters and automated scoring.
- Professional Edge:** Helps users optimize their resumes for Applicant Tracking Systems (ATS), increasing job application success rates.

TECH STACK

EMOTION INSIGHT ANALYZER

Group 4: Haojie Zhou, Jiewen Liu, Yumo Shen



New Features

Re-analyze on result page

Allow users to modify text without the need of going back to the home page

Support for Chinese sentiment analysis

The website now supports Chinese input for both text and documentation input

Fix Image analysis

The image analysis function was broken before, but now it's working correctly

Music Recommendations

Based on the emotion it analyzed, it lists music that fits the emotion and can be played directly.

Introduction

The Emotion Insight Analyzer is a versatile tool for performing sentiment analysis on various types of data, including text, images, audio, reviews, posts, and news articles.

It supports English, French, Spanish, and Chinese! There are also music recommendations :D

Analyzed Text

Modify text for reanalysis:

我很高兴，因为我吃了美味的鸡爪

[Reanalyze](#)



Future Work

- Allow analysis from Instagram posts, similar to Facebook and Twitter
- Optimize Product Analysis functionalities to match up with the new Amazon website layout
- Reconstruct the project. Make it more user-friendly for future coders.

Based on the positive sentiment (66.6%), we recommend these songs:

Hey Ya! - OutKast
Sugar - Maroon 5
On Top of the World - Imagine Dragons

Tests Added

test_textAnalysis

including tests for multi-language input, reanalyze with updated text, file input, and music recommendations.





REPO



Explore more, connect better, and travel smarter with PackTravel —a platform built for students, by students. Join us in making every journey an adventure!

WHAT IS PACKTRAVEL?

PackTravel is a platform built to provide university students with easy, affordable, and reliable travel solutions off-campus. Bridging the gap for students without personal vehicles, it fosters a vibrant community of shared experiences, offering convenience, collaboration, and safety in every ride. Experience smarter and more connected travel today!

Rides and Their Topics

[Create New Topic](#)

Ride: University Towers, Friendly Drive, Raleigh, NC, USA
Date: 2024-11-21
Is the bus service good?
Average cab cost

Ride: Kings Court, Raleigh, NC, USA
Date: 2024-11-21
dd

Ride: Hillsborough Street, Raleigh, NC, USA
Date: 2024-11-21
da

Average cab cost

Is Uber better or lyft?
Created by: abcd on Nov. 25, 2024, 11:24 p.m.

Comments

I usually use Lyft, it is better and faster
By abcd on Nov. 25, 2024, 11:25 p.m.

Add a Comment
Write your comment here...

[Post Comment](#)

EXISTING KEY FEATURES:

- Ride Management:** Effortlessly create rides for your trips or join existing ones posted by fellow students.
- User Profiles:** Build a personal profile to connect with other users, view mutual interests, and foster trust among riders.
- Accurate Locations:** Utilize Google Maps integration for location autocomplete, ensuring precise tagging of pickup and drop-off points.
- Improved Search Experience:** A refreshed, user-friendly search interface helps find rides faster and more efficiently.

NEW ENHANCEMENTS:

- My Rides Section:** A dedicated space for users to track, view, or delete the rides they've created, adding convenience to ride management.
- Popular Rides Section:** See the most frequently joined rides at a glance, allowing users to find popular travel options quickly.
- Interactive Discussion Forum:** Engage in community discussions, share tips, and exchange experiences about specific routes or trips.
- Email Notifications:** Automated alerts notify users when they successfully join a ride, keeping them informed and engaged.
- Critical Bug Fixes:** Addressed key issues including login alerts, password confirmation mismatches, and background image loading problems for a seamless user experience.

FUTURE SCOPE:

- User Ratings System:** Foster transparency and accountability by allowing students to rate fellow riders and rides.
- Cost-Sharing Feature:** Introduce a built-in mechanism for splitting travel costs among riders, making shared rides fairer and simpler.
- Visual Route Display:** Enhance route pages with interactive Google Maps visuals for real-time navigation and route overview.
- Cab Service Integration:** Integrate third-party APIs to show average cab cost for various routes.

Pack's Favorite
Discover our curated top picks!

University Towers, Friendly Drive, Raleigh, NC, USA
[Explore This Ride](#)

Kings Court, Raleigh, NC, USA
[Explore This Ride](#)

Raleigh, NC, USA
[Explore This Ride](#)

My Rides

Destination	Date	Reach Time
University Towers, Friendly Drive, Raleigh, NC, USA	2024-11-21	9:00 PM
Kings Court, Raleigh, NC, USA	2024-11-21	9:00 PM
Centennial Campus, Main Campus Drive, Raleigh, NC, USA	2024-11-21	8:00 PM
University Commons, Graduate Lane, Raleigh, NC, USA	2024-11-21	1:00 AM

CODE QUALITY:

- 109 Test Cases
- 91% Code Coverage
- Pylint & AutoPEP8 Badges
- Automated Workflows: Continuous integration



FITNESSAPPXXX

About

FitnessAppXXX is a comprehensive web application designed to help users take charge of their health and fitness goals through personalized and engaging features. In addition to core capabilities like exercise tracking and nutrition management, the platform now boasts newly added features that elevate the user experience. **Mood Tracker** allows users to log their emotional state, fostering a connection between mental and physical wellness. **Recipe Suggestions** features provide users with health-conscious meal ideas tailored to complement their fitness routines. **Goal Setting & Reminders** ensure consistency and motivation by keeping users on track with their fitness plans. **Customizable Dashboard** provides a personalized view of users' progress by displaying key metrics such as goal reminders, workout plans, and recipes.

The application is built using **Python** for backend logic and **HTML** for a responsive and user-friendly interface, ensuring accessibility across devices. **MongoDB** serves as the database system, offering efficient data storage and retrieval for exercises, recipes, user logs, and reminders. A robust testing framework with **115 total test cases** ensures reliability and smooth functionality across all features, reflecting the development team's commitment to quality.

FitnessAppXXX combines innovation, user-centric design, and powerful tools, making it an all-in-one fitness and wellness solution suitable for beginners and fitness enthusiasts alike. Whether you're tracking progress, finding healthy recipes, or staying motivated with timely reminders, FitnessAppXXX is your ultimate companion for a healthier and more balanced lifestyle.

What's Better

- Mood Tracker:** The Mood Tracker Feature allows users to log their emotional state daily. By recording moods such as happy, sad, stressed, or tired, users can track patterns between mental well-being and physical activity. This feature helps users understand how fitness impacts their overall mood, encouraging a more balanced approach to health.
- Recipe Suggestions:** The Recipe Suggestions feature seamlessly integrates into the user's customized dashboard, making it easy to access at a glance. Users can quickly browse these suggestions, ensuring that healthy meal ideas are always within reach without disrupting their routine. This feature enhances convenience and encourages users to maintain a nutritious diet effortlessly.
- Goal Setting & Reminders:** The Goal Setting & Reminders feature is designed to help users stay motivated and track their fitness achievements seamlessly. A progress bar, starting from the day the goal is set, is prominently displayed on the dashboard, giving users a visual representation of their journey toward their targets. Users are encouraged to exercise regularly to achieve their goals, with the option to manually add completed workouts directly from the dashboard. This manual input system ensures that users can fully customize their tracking experience while staying accountable and motivated.
- Customizable Dashboard:** The Customizable Dashboard gives users a personalized view of their fitness journey by displaying key metrics such as the goal progress reminder, the workout plan reminder, fitness recipes, upcoming meetings, and so on. Users can tailor their dashboard by dragging and arranging widgets to prioritize the aspects of health that matter most to them. Additionally, the customized layout is securely saved, ensuring that users' preferences remain intact even after logging out. This feature provides a seamless, flexible, and comprehensive snapshot of progress, empowering users to stay organized and focused on their goals.

Future Scope

- Delete Data:** Allows users to delete records, such as past workout logs, mood entries, or food tracking data. This feature will help users manage their data more effectively, ensuring only relevant information is retained while maintaining privacy and control over their personal records.
- Multiple Goal Reminders:** Enhance the goal reminder system by allowing users to set multiple goals and reminders for specific fitness objectives, such as targeting muscle groups (e.g., waist, legs) or achieving milestones (e.g., running a specific distance). This feature will provide flexibility and encourage users to diversify their fitness journey.
- AI-Powered Personalized Recommendations:** Integrate an AI-based recommendation engine that suggests tailored workout plans, recipes, or reminders based on user habits, preferences, and goals. For example, the AI could analyze mood and performance trends to recommend lighter exercises on low-energy days or suggest high-protein meals after strength training sessions.
- Search and Filter Functionality:** Implement search and filter capabilities within exercise and recipe databases, allowing users to quickly find specific workouts or meals based on categories like difficulty level, duration, or dietary preferences. This would save time and improve the user experience.

More Info

Scan the QR code on the left to watch our demo video and see FitnessAppXXX in action! Explore how it can help us customize our take charge of health and fitness goals to maintain wellness.

To access our repository, simply scan the QR code on the right.



Demo



Repo

Built with



HTML



JS

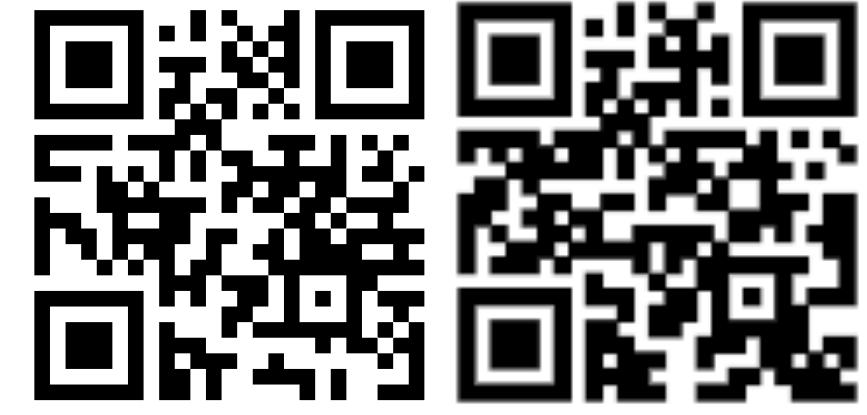




PackFinder 2.0

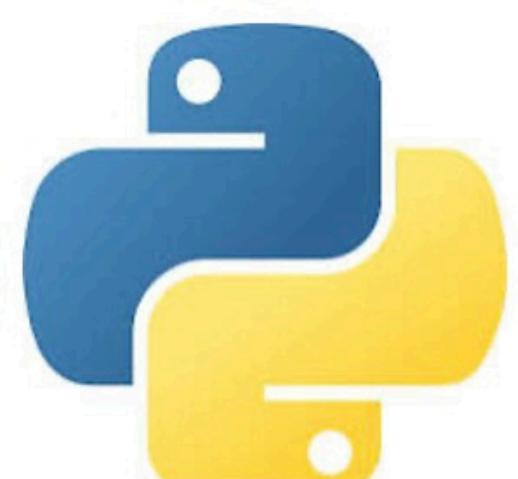
Connecting the Pack, One Roommate at a Time

Group 39 - Diya Shetty, Niharika Maruvanahalli Suresh,
Sanjana Nanjangud Shreenivas

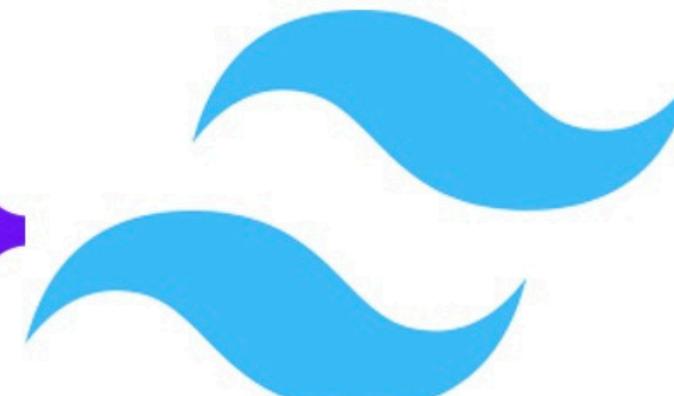


Github Repo Project Demo

PackFinder is the exclusive platform for NC State students to connect with potential roommates in a secure, community-focused environment. Use our smart "Wolf Filter" to refine your search and find roommates who fit your lifestyle perfectly. With robust security features like email verification and customizable visibility settings, we ensure your peace of mind while you build your home within the Wolfpack. Ready to find your match? PackFinder makes it simple, safe, and tailored just for you.



django



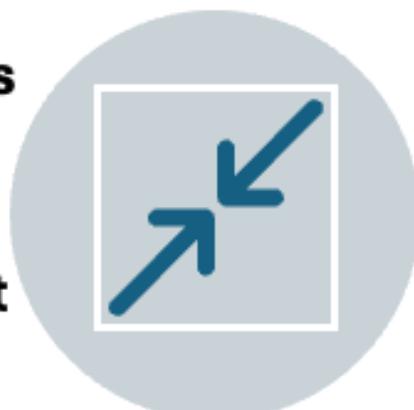
PYTHON | HTML | CSS | DJANGO | BOOTSTRAP | TAILWIND CSS

Feature	PackFinder 1.0	PackFinder 2.0
Pack Connect	✗ No in-app chat feature available. Users had to rely on external communication platforms.	💬 Our personalized in-app chat connects you with potential roommates based on lifestyle preferences and interests. Find your ideal living partner within the Wolfpack community!
Roommate Compatibility Calculator	✗ No tools for compatibility evaluation were provided.	📊 Estimate compatibility scores with potential roommates by factoring in lifestyle, interests, and habits, making it easier to find someone you'll have a good relationship with.
Howl Alerts	✗ No notification system to update users about new matches or potential roommates	🔔 Real-time notifications alert you when new compatible roommates join the platform
Roommate Agreement Builder	✗ No tools to help set roommate expectations or boundaries.	✍️ Create customized roommate agreements based on preferences and boundaries, reducing misunderstandings and ensuring clear expectations.
Community Forum	✗ No Community forum functionality	🗣️ Drop your comments, tips, questions in our community forum to reach out to others for help, concerns and suggestions.

FUTURE SCOPE



AI-Powered Roommate Suggestions
- Use machine learning to analyze user preferences, habits, and compatibility feedback to offer **smart roommate suggestions**



Expense Sharing Tools - Add a **bill-splitting feature** that helps roommates track and manage shared expenses (e.g., rent, utilities, groceries).



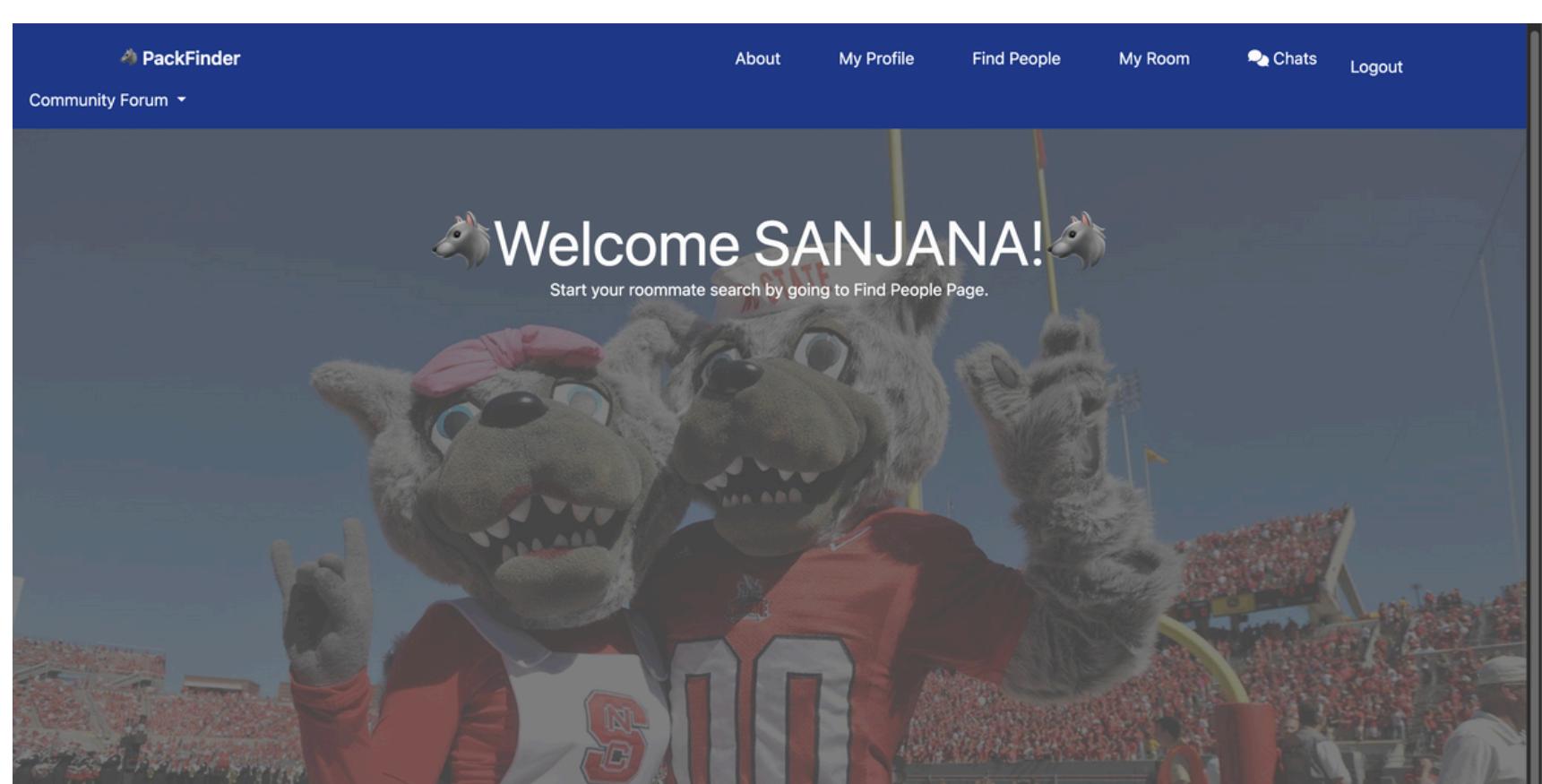
Virtual Roommate Introductions - Include a **video chat option** or virtual meetups for users to interact before committing to a living arrangement.

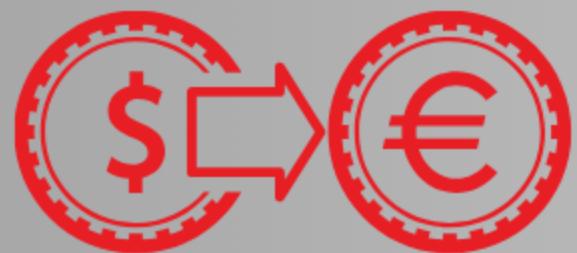


Alumni Network Expansion - Extend the app to include **NC State alumni** for those seeking housing post-graduation.

At PackFinder 2.0, we believe in transparency and collaboration. Here's what makes our repository special

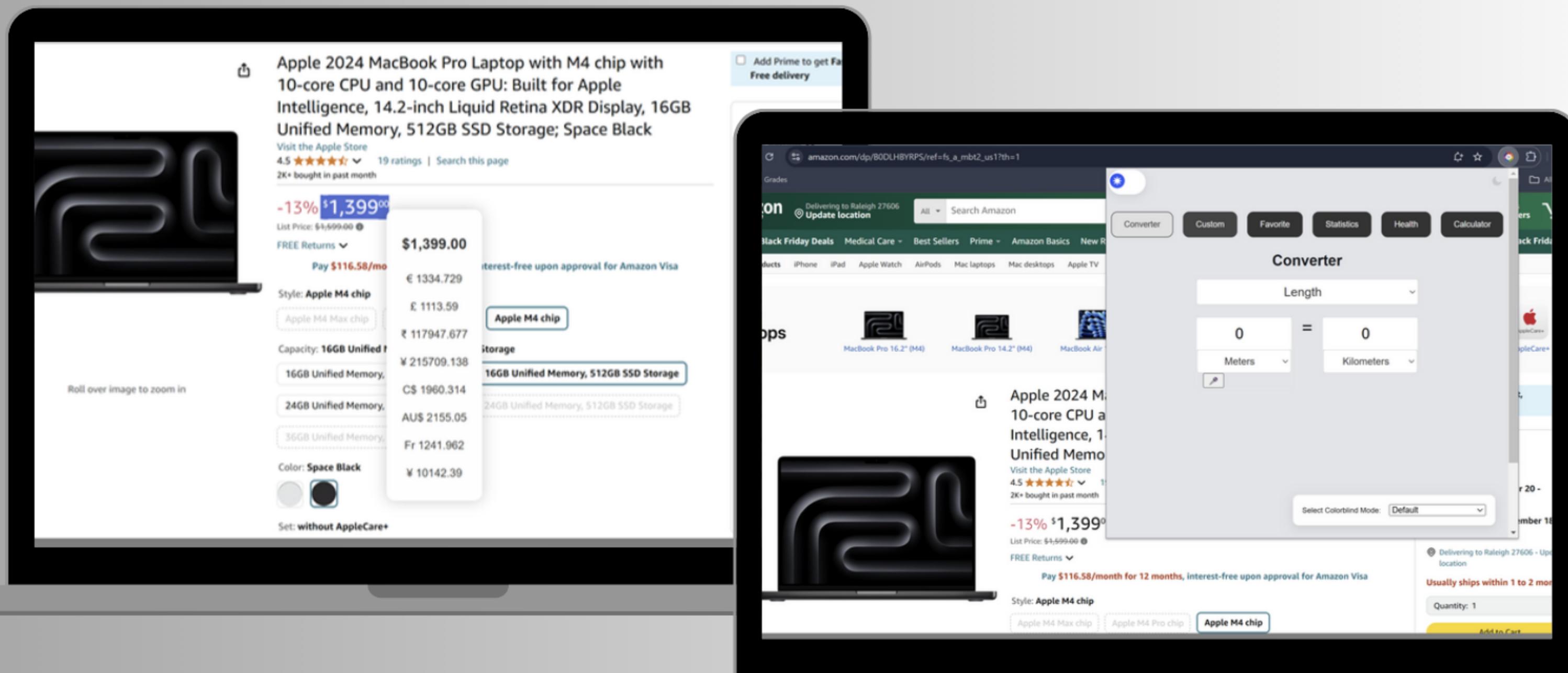
- Open-Source Collaboration
- Version Control
- Continuous Integration
- Documentation
- Community-Driven Development
- Over 80 Test Cases





UNIT CONVERSION

GROUP: 70
KRITHIKA SWAMINATHAN
SANJAEY SHUNMUGA SUNDARAM
SANDHIYA SHUNMUGAVEL



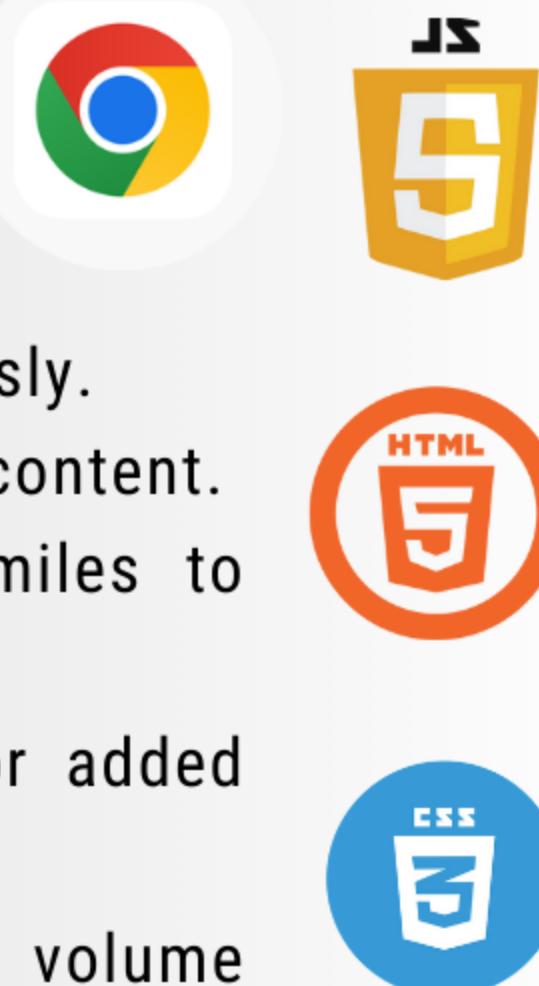
SEAMLESS CONVERSATIONS! SMARTER FEATURES! SLEEK DESIGN!

- UI Enhancements:** Experience a responsive interface that adapts intuitively to your inputs, enhancing usability and engagement. Toggle seamlessly between dark and light themes for a personalized and comfortable viewing experience.
- Custom Tab Capabilities:** Want to create your own Units? Add and manage your own units effortlessly, making the app adaptable to your unique measurement needs.
- Real-Time Results:** Say goodbye to hitting "Enter"! Get instant results as you type, streamlining your workflow like never before.
- Compound Calculations:** Perform advanced calculations, including Area, Volume, Speed, and Engineering-specific formulas such as Pascal to PI and Calories to Joules, all in one dedicated space.
- Speak Your Inputs:** Enjoy hands-free calculations with integrated voice input for maximum efficiency.
- Global Usability:** Automatically adapts to your browser language, offering a localized and inclusive experience for all users

NEXT-LEVEL CONVERSIONS, LIMITLESS POSSIBILITIES!

20+ NEW TEST CASES
200+ TEST CASES

- Ensure compatibility with browsers like Safari and Firefox to reach a wider audience.
- Develop a chatbot capable of handling user requests and processing conversions seamlessly.
- Integrate with Google Docs and Slides to enable real-time conversions while users create content.
- Enhance the voice input feature to support complex commands like "Convert 50 miles to kilometers" for hands-free convenience.
- Introduce voice feedback, allowing the extension to read conversion results aloud for added accessibility.
- Add a dedicated section for cooking conversions, covering common weight and volume measurements like teaspoons to grams, tailored for chefs and home cooks.



DEMO VIDEO LINK

IMPLEMENT CUSTOM TAB CAPABILITIES

REAL TIME RESULTS & IMPLEMENTATION OF MULTILINGUAL SUPPORT

IMPLEMENTATION OF COMPOUND CALCULATIONS

INTEGRATION OF VOICE INPUT MODULE & UI ENHANCEMENTS

DEPLOY AND USE UNIT CONVERSION



Group 17

Dhruv Soni,

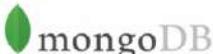
Prithish Samanta,

Sweekar Burji

WOLFJOBS



65+ Test cases providing complete coverage over backend and frontend



Introduction

Wolfjobs is the ultimate connector between recruiters in need of talent for both short-term and full-time roles and candidates seeking the freedom to choose. Dive in, earn your share, and opt out whenever you want – or stay on for a longer journey!

At the heart of our bustling campus, WolfJobs stands out as the top student employment portal

What was version i-1?

1. Enhanced Security: Password protection improved with hashing and JWT-based authentication. Added "Forgot Password" functionality and email notifications for secure resets.
2. Data Validation: Frontend and backend validations implemented to ensure data accuracy and prevent vulnerabilities.
3. New Features: Simplified job creation with skill filtering and automated skill extraction from job descriptions. Fixed resume upload issues and improved error handling
4. UI/UX Improvements: Added interactive feedback and visual enhancements for smoother navigation and engagement

What's next (version i+1)?

1. Application Insights- Provide insights such as number of applications, accepts and rejects in the form of visualizations including dashboards, charts and graphs.
2. Interview Video Summarization - Managers can ask for a video transcript to summarize the candidate's video interview.
3. Chatbot Integration- Our platform WolfJobs will also provide the functionality of Chatbot integrated with our website so that user can easily interact with bot and get to know about various features of web application
4. Expand Network - Right now wolfjobs is focused on providing on campus opportunities within NC State. There is a potential to expand to more university networks.

Why WolfJobs?

- At WolfJobs, it's not just about work – it's about joining a vibrant pack where every wolf (err, student!) counts. Step in and find your howl!🐺
- Competitive & Rewarding: As part of the WolfJobs family, we pride ourselves on offering competitive wages paired with flexible schedules. Your time is valuable, and we recognize that.
- Holistic Growth & Learning: With our commitment to fostering a culture rich in learning and opportunity, every job position at WolfJobs paves the way for personal and professional growth.
- A Confluence of Values: Our foundation rests on unwavering values: integrity, respect for diversity, responsibility, stewardship, and relentless pursuit of excellence



Scan Me
<https://github.com/SoftwareEngineer-ing-HomeWork/CSC510-Project3-WolfJobs-G17>

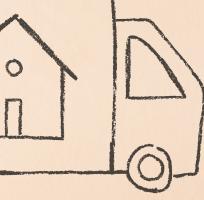


Demo Video
<https://www.youtube.com/watch?v=5j1pGLjN7uM>

What's new (version i) ?

1. Two-Factor Authentication (2FA): Added email-based 2FA for enhanced account security.
2. Job Filtering by Pay: Enabled salary-based job filtering for easier role selection.
3. Resume Parsing & Skill Extraction: Integrated AI-driven resume parsing to extract and categorize technical and non-technical skills for better insights.
4. Video Interview Integration: Added functionality for candidates to record and recruiters to stream video interviews on the platform.
5. Job Recommendations for Students: Used web scraping to suggest tailored job listings from university websites.

The screenshot shows the WolfJobs application interface. At the top, there are tabs for 'WOLFJOBS', 'My Applications', and 'All jobs'. Below that is a search bar labeled 'Search jobs...'. Underneath the search bar are several sorting options: 'Sort by Highest Pay: Off', 'Sort by City: Off', 'Sort by Employment Type: Off', 'Show Closed Jobs', and 'Filter by minimum pay...'. The main area displays a list of jobs under the heading 'All jobs'. Each job listing includes a thumbnail image, the company name ('NC STATE DING'), the job title ('Role: Barista'), the status ('Job Status: Open'), the employment type ('Type: Full-time'), the pay rate ('10\$/hr'), and a brief description ('Making coffee').



WOLFLEASE

Finding Packs made oh, so simple!!!

WHATS NEW?

- **Improved UI**
 - **Reviews (and ratings):** You can now add review (and rate) your favorite houses and/or the ones you've stayed in. With a persistent profile, you are always a customer.
 - **Filtering Options:** You can now filter flats and apartments based on your preferences and specifications.
 - **Password Validation:** The application now has very strong password checkers and a robust password validation mechanism.
 - **Fixed User Flow:** Fixed issue with adding users into the database
 - **Added Robust Authentication tests:** Added about 10 new test cases to authenticate users.

Sign Up

First Name* <input type="text" value="Enter First Name"/>	Last Name* <input type="text" value="Enter Last Name"/>
Username* <input type="text" value="Enter Username"/>	Email* <input type="text" value="Enter Email"/>
Password* <input type="password" value="Enter Password"/> 	
<small>Show password</small>	
<small>Forgot password?</small>	
Confirm the Password* <input type="password" value="Re-enter Password"/> 	
Sign Up	

Already have an account? [Login Now](#)

Future Scope

- **Email notifications and integration:** Sending email notifications and alerts for login, signup, roommate match, apartment and flat decisions, etc.
 - **Better sorting functionalities:** Implement sorting feature to sort apartments and flats by price, review/ratings, and lease dates.
 - **Add to Favorites:** Allow users to save their favorite apartments and flat listings in their profile.
 - **Developer Feedback:** Allow users on the webpage to give feedback to the developers for improving the overall User Experience
 - **Roommate Connections:** Allow potential lessees to have the option to connect with potential roommates.

The screenshot shows a 'Flats Grid' view with a modal dialog titled 'Filter Apartments'. The dialog contains fields for 'Min Rent per Room' (set to 100), 'Max Rent per Room' (set to 500), and 'Preferred Floor Number'. It also includes a dropdown for 'Availability' with options 'Select Availability' and 'Available'. At the bottom right of the dialog are two buttons: 'Apply Filter' and 'Close'. The main grid below shows 10 rows of flat data, each with columns for 'Lease ID', 'Title', 'Address', 'Room Type', 'Floor', 'Size', 'Price', and 'Actions'. The first row is highlighted in green.

Login Now

Username*

Password*

Don't have an account? [Register Now](#)

METHODOLOGY

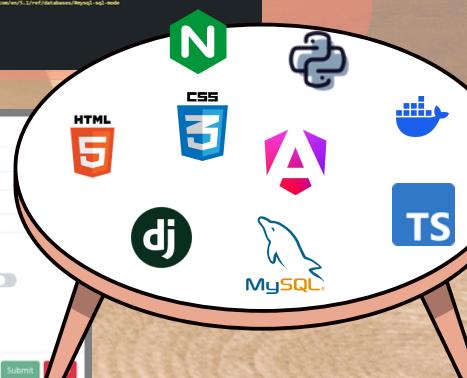
- **User-friendly Interface:** Designing a clean, intuitive, and responsive interface to enhance user experience across devices.
 - **Advanced Search and Filter Options:** To implement comprehensive filtering mechanisms for apartments and flats based on criteria such as price, location, and facilities.
 - **Listing Management:** Enable users to post, edit, and delete listings for apartments and flats seamlessly.
 - **Review System:** Introduce a review and rating system to provide valuable insights into listed properties, enhancing transparency.
 - **Robust Validation Mechanisms:** To incorporate robust input validation to prevent errors and ensure secure user interactions.
 - **Alert and Notification Features:** Setting up real-time alerts and notifications for new listings, updates, and user actions to keep users informed.

TESTING

Wolflease has a thorough testing framework that ensures strong dependability and security. Our extensive testing mechanism, consisting of **36 comprehensive test cases**, addresses crucial issues such as user identification, data integrity, and access control. We've taken a step further to validate user registrations and logins, to prohibit duplicate usernames, and enforce password restrictions. Our tests confirm permitted access to sensitive data, enable efficient logout operations, and authenticate the complex interactions between owners, users, units, and leases. This thorough testing process ensures a reliable and secure experience for property owners, renters, and users, setting a high standard in the online rental market.

Add User

Contact Email	<input type="text"/>	Contact Number	<input type="text"/>
Password	<input type="password"/>	Date of Birth	<input type="text"/> mm/dd/yyyy
Gender	<input type="button" value="Select a Gender"/>	User Type	<input type="button" value="Select a User Type"/>
Drinking Preferred ?	<input checked="" type="checkbox"/> No	Vegetarian Preferred ?	<input checked="" type="checkbox"/> Yes
Flat Id	<input type="text"/>		





ENIGMA

AN ENHANCED DISCORD MUSIC BOT
FOR SONG LISTENING, SHARING, &
RECOMMENDATIONS



Existing Features:

SONG QUEUE MANAGEMENT:



Move a song within a song queue, to the front of the queue for listening next, or jump to a specific song anywhere in the queue. Able to toggle music pause/resume.



Enigma APP Today at 1:54 PM

Moved never gonna give you up from track 2 to track 1

SONG REPLAY:



Enjoy the song you are currently listening to or missed the beginning because you were distracted? Instead of having to queue the song again, simply prompt the bot to replay the song!



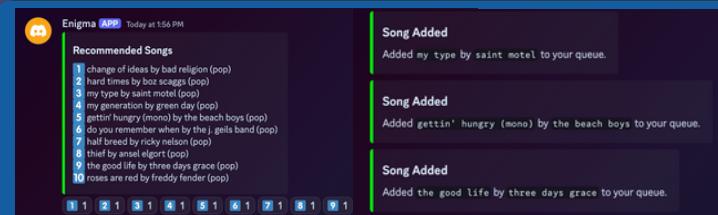
Enigma APP Today at 1:55 PM

Got it, I will immediately restart this song

SONG RECOMMENDATIONS:



Provides pre-set song recommendations based on a number of songs already present in the queue, considering particular artists and genres.

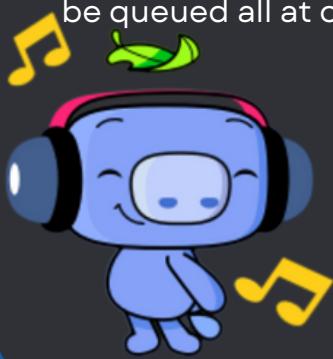


Improvement Milestones Proposed for Future Versions:

SHARED PLAYLIST CREATION:



Server-specific playlist creation to share between all members of a server, allowing for many songs to be queued all at once.



LYRIC VIDEO PRESENTATION:



Add the ability for the bot to “stream” active lyric videos using screen share, fully synced with the music it is playing for an enhanced karaoke experience!



DYNAMIC SHUFFLE:



Shuffle play shared playlists either from YouTube playlists created on the YouTube platform, or in server-specific playlists from the bot playlist library.



105 QUALITY TEST CASES!

<https://go.ncsu.edu/enigma>



VogueX

FASHION RECOMMENDER

VogueX offers personalized outfit recommendations tailored to your style, occasion, and weather. Whether it's sunny or rainy, stay appropriately dressed with weather-based suggestions. Filter options by gender, culture, age, and occasion to find looks that suit you. Discover top e-commerce deals, shop



REPO

DEMO



WORKFLOW

- Login/Signup:** Users create an account via the signup portal, verify their email through OTP, and are redirected to the home screen upon success.
- Home Screen:** Displays an overview of features and provides navigation through a user-friendly navbar.
- Personalized Fashion Recommendation:** Suggests outfits based on user details (gender, age, culture, occasion) and weather, including festival-specific attire.
- Shopping Websites:** Generates tailored outfit lists and links to shopping sites for purchasing.
- Favorites Management:** Lets users save favorite outfits for future reference and streamlined shopping.
- Logout:** Enables users to log out anytime, returning to the start screen.

UPGRADES



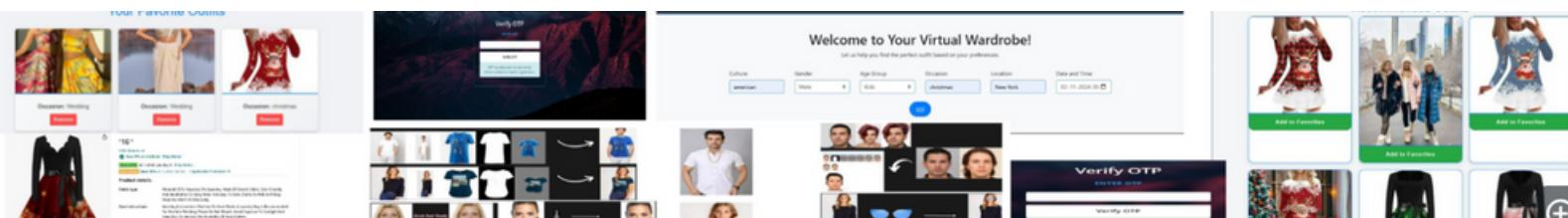
- Image-Based Styling:** Users can upload clothing images to receive styling tips and matching outfit suggestions.
- Color Palette Suggestions:** Added occasion and culture-based color palette recommendations using the Gemini API.
- Search Attribute Display:** Displays search filters (e.g., occasion, culture) above the results page for better clarity.
- Accessory Recommendations:** Suggests accessories like umbrellas, coats, or glasses based on weather, occasion, and culture.
- Enhanced Test Coverage:** Achieved 90% test coverage for improved reliability.
- UI Improvements:** Updated design for smoother navigation and better user experience.
- Advanced Recommendations:** Improved suggestion accuracy with the Gemini API for outfits and accessories.
- Google Sign-In:** Added Google authentication alongside email and password login for easier access.



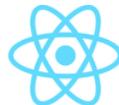
FUTURE ENHACMENTS



- AI Styling:** Use advanced AI for precise styling based on image patterns and textures.
- Weather Alerts:** Add push notifications for outfit updates based on real-time weather.
- AR Try-On:** Integrate AR for virtual outfit and accessory previews.
- Social Sharing:** Enable sharing try-on results on social media for feedback.
- Advanced Filters:** Introduce filters for price, fabric type, and sustainable options.
- Seasonal Suggestions:** Add recommendations for seasons and specific events.
- Sustainability Metrics:** Highlight eco-friendly fashion choices.
- Voice Assistance:** Add voice or chatbot features for hands-free interaction.
- Trend Insights:** Provide personalized updates on fashion trends.



FlashCards



Discover & Organize Your Favorite Recipes

WHY YOU SHOULD CHOOSE THIS PROJECT?

- Help people improve their study habits and expand their knowledge.
- Gain experience in Full-Stack Development: Design an API and frontend using popular languages, frameworks, and libraries.

WHAT CAN FLASHCARDS DO?

Create and Practice Flashcard Sets

- Create study decks consisting of numerous flashcards. Specify the front term and back definition of each card.
- Study the material, then test your knowledge all in one place
- Search for and view other users' public decks to help you study

Study Together with Others NEW

- Share your flashcard sets with other users by sending them a link.
- Explore other users' flashcards, and save them to your dashboard to study again in the future.
- Form Study Groups with other users. Share your decks with the group, and explore other users' decks. Chat with each other to work together on studying. Compare your quiz scores to your groupmates - aim for the top of the leaderboard!

Gain Insights from Analysis of your Studying NEW

- View an analysis of your previous quiz attempts.
- Track what concepts give you the most trouble to personalize and focus your study experience

Customize Quizzes to Make Your Learning Smoother ENHANCED

- Enable a timer on quizzes to ensure you can remember the material quickly
- See which questions you missed at the end of a quiz, so you know which concepts need to be reviewed.

HELP ENHANCE THE PROJECT - FUTURE SCOPE

More Quiz Types

- Enhance quizzes further by allowing users to select the type of questions (such as matching, multiple choice, or free-response)

Subject Assignment

- Allow each study deck to be assigned a subject (such as vocabulary, history, science, etc.).
- Enable searching/filtering of decks based on the subject type.
- Allow users to track their aggregate progress and study habits over all their decks of a specific subject

Enhance Dashboard

- Large amounts of decks can be difficult to scroll and sift through manually. Allow users to search their own decks/groups/folders in order to more easily find them.
- Add optional thumbnails for decks or groups

Expand Notifications

- Allow users to optionally enable email notifications for group activities, updates to the leaderboard on their decks, and new personal study metric analyses.

TESTING STATS

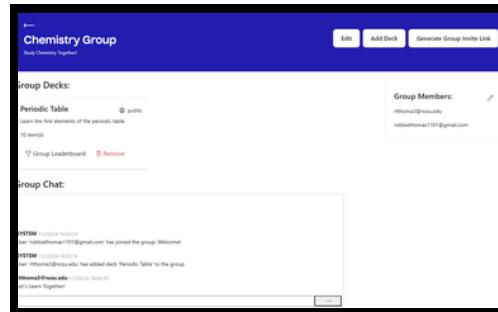
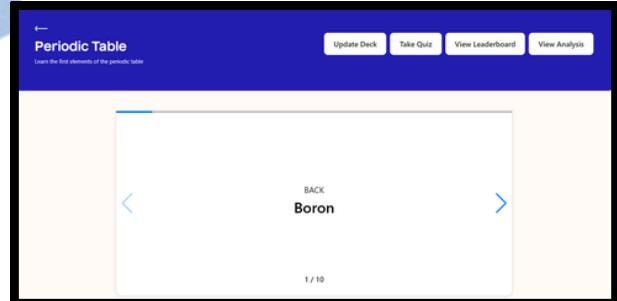
- 97 Backend Tests written for 86% statement coverage**
- Add new features without breaking the old ones**



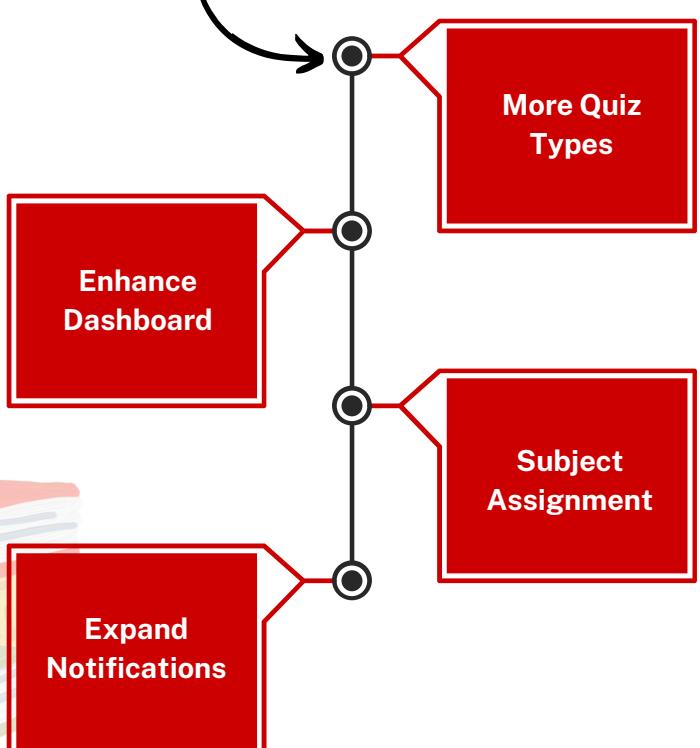
[CHECK OUT THE REPO](#)



[VIDEO OVERVIEW](#)



IMPLEMENTATION TIMELINE



WOLFJOBS

VERSION 4.0

Get Hired Fast!

INTRODUCTION:

WolfJobs is a free-to-use, open-source platform designed to get you hired, or, find employees for your business. Whether applicant or recruiter, use a sleek user interface from React to view or post available listings and get campus positions filled fast and easy!

New Features

New Profiles: Updated profile page that allows applicants to store work-related information independent of their resumes.

Experience and Education tabs: New sections for applicants to enter and store their education and experience within their profiles.

AI-backed Job recommendations: Using the power of Artificial Intelligence, applicants can now get specialized recommendations on what jobs they would be best for based on their educational and work experience.

Advanced Testing: 23 new test cases across the program, ensuring adherence to coding standards on all new features. Total Tests across both the frontend and backend is 40+.

Updated Codebase: The removal of outdated and deprecated code ensures the software runs faster and cleaner than before.

Future Improvements

Public Profiles: Make profiles public to other applicants and employers.

Interactive Job Market Insights: Explore visual analytics to understand job trends and make informed career decisions.

Hiring Recommendations: Upgrade our AI-software to recommend ideal employees based on the job specifications laid out by employers.

Connect with LinkedIn: Allow users to log in through LinkedIn, allowing users to auto-fill fields like education and experience when they do.

Chat: Create a chat service that allows potential employers and employees to have private conversations over the app.

ARE YOU LOOKING
FOR AN ON-CAMPUS
JOB?
OR
ARE YOU LOOKING TO
FILL AN ON-CAMPUS
POSITION?



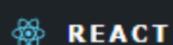
REPOSITORY

All New *Profiles*



New AI *Recommendations*

GROUP 35 - JONAS TREPANIER, ANIRUDH KALURI, SIDDHI MULE



REACT



NODE.JS



EXPRESS.JS



MONGODB



RESTAPI

POSTER :



The poster features a dark purple background with various movie-related illustrations like film reels, stars, and a clapperboard.

CINESCOUT

GROUP 76
Navyatej Tummala
Sasidhar Appalla
Niranjan Rajendran

CineScout is a smart movie recommendation engine designed to enhance your viewing experience. By analyzing your preferences and watch history, it suggests tailored movie options, helping you uncover new favorites effortlessly. Discover, explore, and enjoy movies like never before!

WHAT'S NEW

- Interactive Quizzes: Fun, personalized movie recommendations.
- Seasonal Suggestions: Get recommendations based on seasonal events like Halloween or summer blockbusters.
- Gamified Movie-Watching: Earn badges or rewards for trying new genres or watching a set number of films.
- Friend-Suggested Content: Connect with friends, share watchlists, and discuss recommendations.
- Watchlist Feature: Save movies you want to watch and easily access them later.

FUTURE SCOPE

- Push Notifications: Send personalized alerts for new releases or changes to the watchlist.
- Search History: Maintain a searchable history of past user queries for quick re-access.
- Integration with Streaming Services: Allow users to see where movies are available for streaming.
- Profile Customization: Allow users to upload avatars and set preferences for a more personalized profile.

Comprehensive testing with 70+ test cases

TECH STACK

SCAN ME

QR code

SLASH

save loot and save hassle

Tired of searching multiple websites for the best deals? Slash is here to make your online shopping experience smarter and faster! Slash is a web API framework that automatically scrapes top e-commerce sites—Walmart, Target, Costco BestBuy, and eBay—to find and compare the best deals, saving you time and money. Whether you're a student on a budget or a data analyst building real-time datasets, Slash is the tool for you.

Why slash is Better

- Fast** - Compare deals across platforms in seconds.
- Easy** - User-friendly APIs to filter, sort, and customize search results.
- Powerful** - Delivers tailored results in JSON format, perfect for seamless integration.

Key Features & Milestones

Advanced Search Capabilities

We enhanced the current search functionality by adding more advanced filters such as product ratings, seller ratings, availability, and shipping time, giving users more refined control over search results, improving user satisfaction.

Social Media Login and Sharing

We allowed users to log in using social media accounts. Specifically, users are now able to log in by using their google accounts.

Price Chart Visualization

We allowed users to visualize the distribution of product prices. This function contains highlights key statistics such as mean price, median price and standard deviation.

Slash Test Suite

The "Slash" test suite includes 179 test cases!!!

Future Road Route

Predictive Price Model:

- We plan to implement a machine learning-based predictive model that advises users on the optimal time to make purchases, based on historical price trends and forecasting.

Pagination for Search Result

- A pagination system to improve the display of search results, particularly for large datasets is in progress.

Personalized Recommendations

- We aim to develop a machine learning-driven recommendation system that suggests products to users based on their browsing history and preferences, enhancing the shopping experience.



Main Menu

Select Page

Search

RESULTS

Cheapest product link

Items are displayed in the increasing order of their prices

	Description	Price	Link	Website	Image
0	Apple Watch SE GPS 40mm Sport Band	\$239.99	Product Link	costco	
1	Apple Watch SE GPS 40mm Sport Loop	\$239.99	Product Link	costco	
2	Apple Watch SE GPS 44mm Sport Band	\$269.99	Product Link	costco	
3	Apple Watch Series 10 (GPS) 42mm Sport Band	\$389.99	Product Link	costco	
4	Apple Watch Series 10 (GPS) 42mm Sport Loop	\$389.99	Product Link	costco	
5	Apple Watch Series 10 (GPS) 40mm Sport Band	\$419.99	Product Link	costco	

Repo Link



Video Link



User Guide

- In a market where we are spoilt for choices, we often look for the best deals.
- E-commerce has transformed shopping habits and increased customer expectations for personalized service.
- Slash helps you easily find the best deals from major online retailers in one place.
- Slash is currently aimed at students looking for the best deals but can be used by anyone developing an app with these APIs.

Contact Information For more intriguing ideas or problems, please contact Group 7 !!!

MOVIE MOOD

Movie Recommendations That Fit Your Mood

Have you ever watched a movie and thought, 'This is my kind of movie'? What if you could instantly discover more movies just like it? With Movie Mood, you can! Say goodbye to endless scrolling through Netflix—our smart recommendations and unique features bring the perfect movie to your screen in no time. Let Movie Mood take the guesswork out of your movie nights!



Team 38
Michelle Varghese
Makarand Pundlik
Varun Varatharajan

REPO



DEMO

WHY OUR VERSION ROCKS

Watchlists

Found an interesting recommendation? Save it to your watchlist for later!

Streaming Services

Check streaming options for your recommended movies in one click!

Watch Trailers Instantly

Watch the youtube trailers for the recommended movies on our website instantly!

Improved UI

Enjoy a sleek interface designed for a smoother user experience that keeps you coming back.

Search Movies

Users can search for any movie and the TMDB API fetches all the details in return.

WHAT'S NEXT?

Dynamic Chat Rooms

Allow movie-specific chat rooms to facilitate more targeted discussions

Mood-Based Recommendation Algorithm

Refine the algorithm to provide better accuracy in mood-based suggestions.

Interactive Review System

Enable users to comment on each other's reviews to foster community engagement.

Shareable Lists

Enable users to share created lists with their friends and collaborate based on a concept.

Enhanced User Profile

Include features for users to edit or delete reviews, and display favorite movies on their profile.

TESTS

WE have laid a STRONG foundation for YOU with up to **50 Test Cases** and achieving up to **98% Code Coverage!**

Recommended Movies



TECH STACK



Movie Mood

Discover personalized movie recommendations by selecting your favorite films. Add reviews, get insights on latest movies, and see what others are watching!

Get Started!

Personalized Picks
Get movie recommendations tailored to your taste

Share Reviews
Write and read reviews from other movie enthusiasts

Watch Trailers
Preview movies with integrated trailer viewing

Welcome !

DAY'S SERIES

CHAT ROOM

MOVIE MOOD HUB

SEARCH PAGE

CELEBRITY

MY WATCHLIST

NEW

My Watchlist

Westworld (1973)

In a futuristic resort, wealthy patrons can visit recreations of different time periods and experience their wildest fantasies with...

Runtime: 88 minutes

Remove from watchlist

Sleight (2017)

A young street magician is left to take care of his little sister after his mother's passing and turns to drug dealing in the Los...

Runtime: 89 minutes

Remove from watchlist



NC STATE CAMPUS JOB REVIEW

GROUP 37: VU VUONG, HRISHIKESH SALWAY, ROHAN KHANDARE



OVERVIEW

The Campus Job Review is a platform where students can share and explore reviews of on-campus job opportunities. Built with React, Django, and MongoDB, it lets users upload their experiences and search for jobs using dynamic filters that deliver instant results directly on the frontend. The platform ensures security with JWT token authentication and offers a responsive, user-friendly interface. Students can engage with peers through a discussion forum, navigate job reviews easily with a redesigned display featuring collapsible rows, and manage their account details through a profile page. With email verification, password reset options, and a streamlined search process, the platform helps students make informed decisions about job applications based on insights from their peers.



WHAT'S NEW?

- Discussion Forum:** Introduced a discussion board where users can share experience, ask questions or simply comment on job reviews.
- Enhanced Job Review Display:** Redesigned the job reviews table with collapsible rows, allowing users to expand jobs for detailed descriptions, along with reviews and associated comments, improving navigation and user experience.
- Email Verification:** Improve the sign-up process and user authentication by email verification, and ensure the user's email is valid and active.
- Reset Password:** Users can now recover access to their accounts by resetting forgotten passwords, improving the login process.
- Profile Page:** Integrated a profile page where users can view and update their account details, including their name, email, and bio.
- Optimize Filters:** Revamped the filter algorithm by shifting the filtering process to the frontend instead of making a backend call, resulting in immediate action upon clicking the "Filter" button.

FUTURE SCOPE

- Browser Extension Enhancement:** Extend the browser extension to be integrated with the backend and show the complete review. Additionally, add an auto-fill feature based on the review information that would simplify data entry, enhancing user-friendliness and efficiency.
- Mobile Application Development:** Develop a mobile version of the CampusJobReview platform to allow users to access job listings, submit reviews, and receive notifications on the go, enhancing accessibility and user engagement.
- Job Recommendation:** Integrate a recommendation system to suggest on-campus jobs based on user preferences, past job reviews, and similar profiles.
- Two-Factor Authentication:** Implement 2FA to significantly enhance the security of the application by adding an additional layer of protection, ensuring that only authorized users can access their accounts.

TESTS

The current project has a total of 83 written test cases ensuring the desired behaviour of the code.



Sign Up

[Sign Up](#)

Login

[Login](#)

[Forgot Password?](#)

NCSU CAMPUS JOB REVIEW

Filter

Reset

Barista - Starbucks (\$10/hr)

★★★★★

Software Engineer (\$20/hr)

★★★★★

Dining Cleaner (\$12/hr)

★★★★★

1887 Bistro server (\$7.25/hr)

★★★★★

cashier (\$10/hr)

★★★★★

CSC 510-001 - SE Project 3 Submission

Team members : (Group no 44)

- 1) Shashank Ajit Walke – swalke
- 2) Sumeet Bapurao Khillare – skhillala
- 3) Xiaoqin Pi – xpi

1) Repository

Link : <https://github.com/sumeetkhillare/To-Done/tree/main>

2) Poster :

Link :- [Poster Link](#) (refer this link for pdf version of poster, as below one is an image and links cant be clicked)



Tired of wrestling with complex to-do lists? Say hello to To-Done! It is an innovative task management solution that increases your productivity by simplifying task organization. To-Done eliminates the hassle of old task management tools, allowing you to focus on what really matters - getting things done. Its web interface helps you to effortlessly manage your tasks anytime, anywhere. Whether you're organizing personal projects or collaborating with a team, To-Done provides a sorted environment that keeps you on track and in control. Experience the power of simplified productivity with To-Done - where tasks get done, not delayed.

FEATURES

- **Dynamic Task Management:** Edit tasks, deadlines, and priorities on-the-fly for maximum flexibility.
- **Editable Templates:** Save time with editable templates in new version and create to-do list using the same.
- **Multi-Modal Task Notes:** Capture task details through both text and voice notes for convenience.
- **Automated Deadline Reminders:** Stay on track with timely email notifications for approaching deadlines.
- **Enhanced User Interface:** Experience a streamlined, organized task management environment.
- **Optimized Database Performance:** Enjoy faster response times with improved database efficiency.



120 + Testcases covering project functionalities

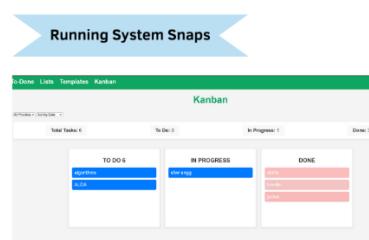
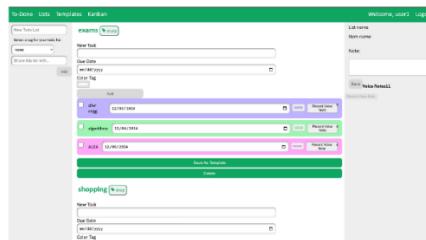
Group No 44
Shashank Walke - swalke
Sumeet Khillare - skhillala
Xiaoqin Pi - xpi

TECH - STACK



FUTURE SCOPE

- **Productivity Insights Dashboard:** Develop an analytics-driven insights page that provides visual representations of task completion rates, time management efficiency, and productivity trends based on user statistics.
- **Enhanced Kanban Board Functionality:** Implement sub-sprints and deadline-based boards within the Kanban system to allow for more granular project management and improved workflow visualization.
- **React-based User Interface:** Migrate the current UI to React framework to enhance user interaction, improve performance, and enable more dynamic and responsive design elements.
- **Task Assignment for Collaborative Work:** Allow user assignment for shared lists for better collaboration.



SLASH

save loot and save hassle

Tired of searching multiple websites for the best deals? Slash is here to make your online shopping experience smarter and faster! Slash is a web API framework that automatically scrapes top e-commerce sites—Walmart, Target, Costco BestBuy, and eBay—to find and compare the best deals, saving you time and money. Whether you're a student on a budget or a data analyst building real-time datasets, Slash is the tool for you.

Why slash is Better

- Fast** - Compare deals across platforms in seconds.
- Easy** - User-friendly APIs to filter, sort, and customize search results.
- Powerful** - Delivers tailored results in JSON format, perfect for seamless integration.

Key Features & Milestones

Advanced Search Capabilities

We enhanced the current search functionality by adding more advanced filters such as product ratings, seller ratings, availability, and shipping time, giving users more refined control over search results, improving user satisfaction.

Social Media Login and Sharing

We allowed users to log in using social media accounts. Specifically, users are now able to log in by using their google accounts.

Price Chart Visualization

We allowed users to visualize the distribution of product prices. This function contains highlights key statistics such as mean price, median price and standard deviation.

Slash Test Suite

The "Slash" test suite includes 179 test cases!!!

Future Road Route

Predictive Price Model:

- We plan to implement a machine learning-based predictive model that advises users on the optimal time to make purchases, based on historical price trends and forecasting.

Pagination for Search Result

- A pagination system to improve the display of search results, particularly for large datasets is in progress.

Personalized Recommendations

- We aim to develop a machine learning-driven recommendation system that suggests products to users based on their browsing history and preferences, enhancing the shopping experience.



Main Menu

Select Page

Search

RESULTS

Cheapest product link

Items are displayed in the increasing order of their prices

	Description	Price	Link	Website	Image
0	Apple Watch SE GPS 40mm Sport Band	\$239.99	Product Link	costco	
1	Apple Watch SE GPS 40mm Sport Loop	\$239.99	Product Link	costco	
2	Apple Watch SE GPS 44mm Sport Band	\$269.99	Product Link	costco	
3	Apple Watch Series 10 (GPS) 42mm Sport Band	\$389.99	Product Link	costco	
4	Apple Watch Series 10 (GPS) 42mm Sport Loop	\$389.99	Product Link	costco	
5	Apple Watch Series 10 (GPS) 40mm Sport Band	\$419.99	Product Link	costco	
6	Apple Watch Series 10 (GPS) 40mm Sport Loop	\$419.99	Product Link	costco	

Repo Link



Video Link



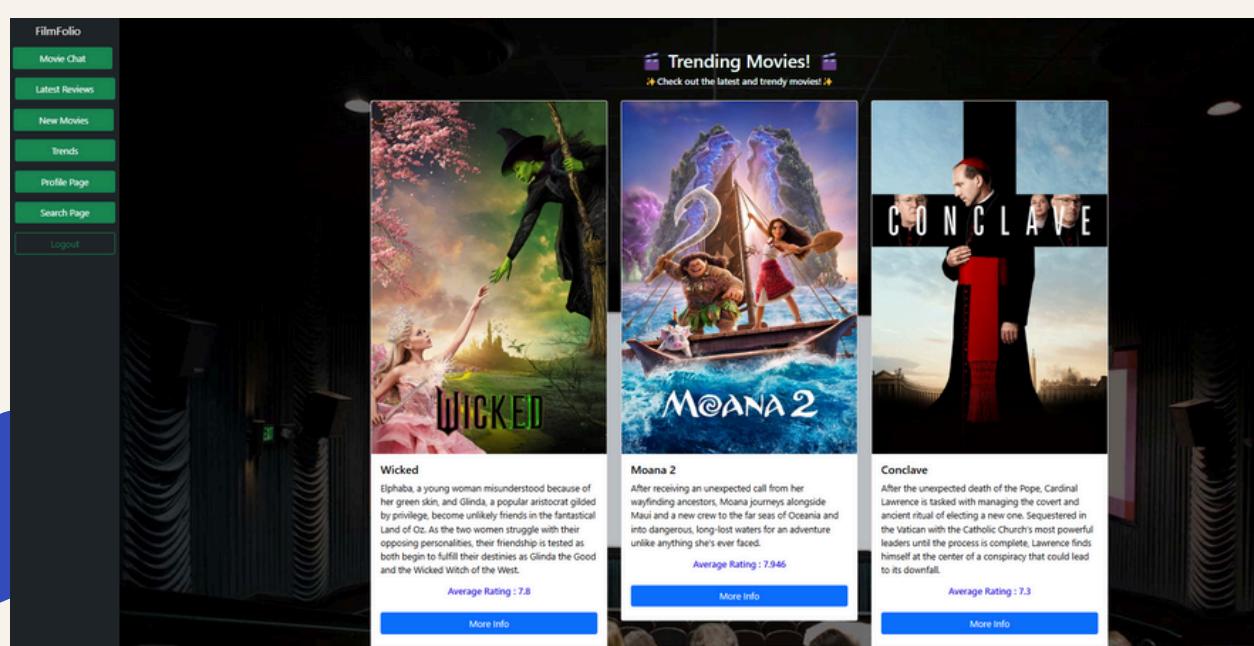
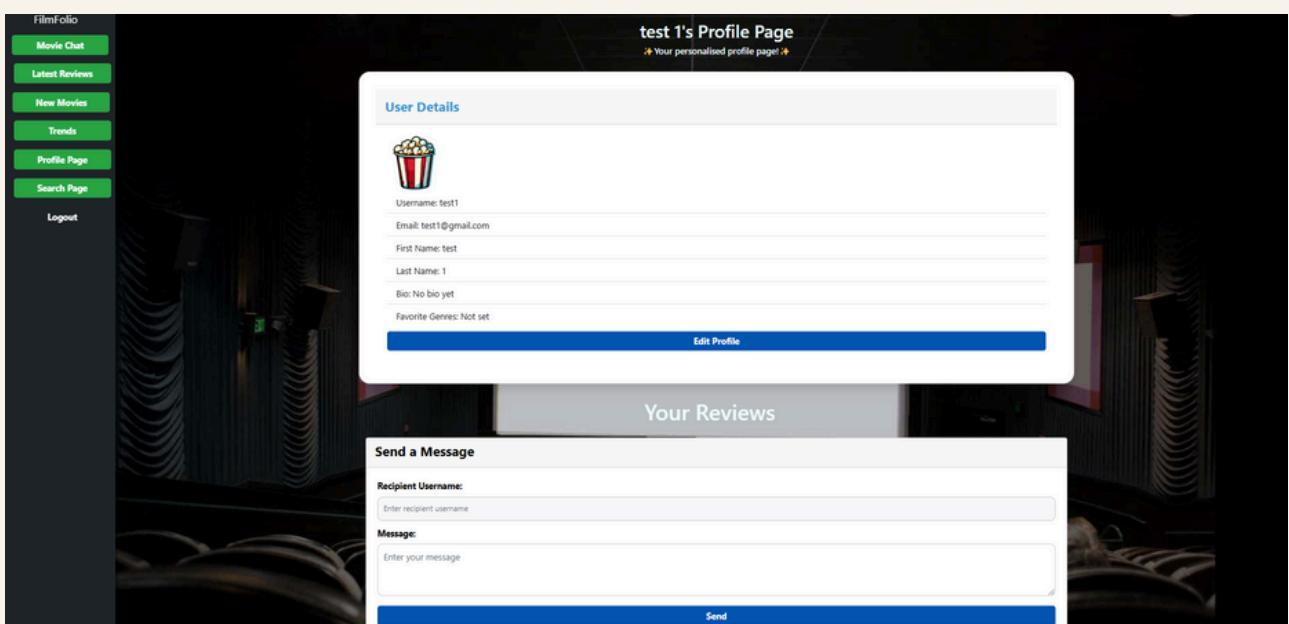
User Guide

- In a market where we are spoilt for choices, we often look for the best deals.
- E-commerce has transformed shopping habits and increased customer expectations for personalized service.
- Slash helps you easily find the best deals from major online retailers in one place.
- Slash is currently aimed at students looking for the best deals but can be used by anyone developing an app with these APIs.

Contact Information For more intriguing ideas or problems, please contact Group 7 !!!

FilmFolio

FilmFolio is more than just a movie recommender system; it's a gateway to a world of cinematic adventures. With an ever-expanding library of films and a powerful recommendation algorithm, FilmFolio is here to transform the way you discover, enjoy, and connect with movies.



Future Milestones

- **Mobile App Launch:**
 - Develop and release a mobile version for iOS and Android for better accessibility..
- **AI-Driven Analytics:**
 - Integrate analytics for portfolio performance, trends in user engagement, and personalized recommendations.
- **Media Handling:**
 - Build robust media upload, encoding, and streaming pipelines using FFmpeg or third-party APIs (e.g., AWS MediaConvert).
- **Advanced Recommendation Engine :**
 - Implement collaborative filtering (e.g., Matrix Factorization) and content-based filtering to recommend movies based on user preferences and viewing history.

New and Improved!

- **Messaging feature:**
 - Continue to improve user profiles! Features such as private messaging and sharing movie recommendations could be implemented.
- **Trends page!:**
 - Movie watchers always want to know what the latest and trendy movies are. Make a page that easily provides that information!
- **Streaming platform integration:**
 - Integrate popular streaming services to provide seamless access to the recommended movies.
- **Docker implementation :**
 - It would allow you to deploy FilmFolio anywhere!
- **Attractive Profile page**
 - This page now allows updating user profile giving a more personalized experience.



Github link



Video

TechStack -

