Student Assist App

Team Analysis Report

Group - V

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Section 1

Summary

In summary, Student Assist is an intelligent mobile application that offers individualized advice and support for daily decision-making to maximize the student experience. The application makes use of machine learning algorithms to gauge results and comprehend the user's goals to improve its recommendations over time. By being valuable, useful, reliable, portable, scalable, secure, and guaranteeing the confidentiality and integrity of user data, it focuses on optimizing utility for users.

Key Features

Personalized guidance:

Understanding the user's goals, including their academic aspirations, career goals, and personal preferences, is the first step in providing Student assistance. After that, it offers customized suggestions and guidance to assist students in making defensible choices regarding a range of academic endeavors.

Goal Setting and Measuring:

The application lets users create objectives and monitors their advancement towards reaching them. It gathers data from a variety of sources—including grades, study hours, extracurricular activities, and user feedback—to measure results and offer suggestions for development.

Smart Scheduling:

Student Assist creates customised plans for users based on their academic obligations, deadlines, and preferences to help them manage their time successfully. It sends out reminders for impending tasks and activities and connects with calendar apps.

Resource Recommendations:

Based on the user's interests and learning goals, the app makes recommendations for pertinent resources, including study guides, articles, videos, and academic assistance services. Additionally, it makes it easier to attend online workshops, tutoring sessions, and courses.

Social and Community Integration:

To promote cooperation, networking, and information exchange, Student Assist links users with classmates, mentors, and alumni. To encourage communication and support between students, it has features including study groups, discussion boards, and mentorship programmes.

Input and Improvement:

In order to keep improving its suggestions and services, the app gathers user input via surveys, ratings, and user interactions. To improve the entire learning experience for students, iteratively learns from user behaviour and preferences.

Security and Privacy:

Student Assist places a high priority on protecting user data through the use of strong authentication procedures, data anonymization strategies, and encryption protocols. It gives users transparency and control over their personal data while adhering to pertinent data protection laws.

Career Services:

Student assist helps recent graduates and job/internship seeking students by providing tools which help them in building their resume,cover letters and in interview preparations.

Model:

User-friendly interface, personalised dashboards, goal-setting modules, scheduling tools, resource libraries, social networking elements, and feedback mechanisms will all be present in the Student Assist prototype. It will be created as a mobile application using cloud-based architecture for scalability and dependability on both the iOS and Android platforms. To achieve maximum usability and efficacy, the prototype will go through iterative testing and revision depending on user feedback.

Section 2

User Category

General students:

General students are individuals who are currently enrolled in academic institutions and are seeking support and resources to enhance their overall academic experience.They may have diverse academic interests, goals, and preferences.General students may require assistance with managing their academic schedules, setting goals, accessing educational resources, and making informed decisions about their academic and personal development.They will utilize the app to receive personalized recommendations, track progress towards academic objectives, manage schedules, and access resources to support their learning journey.They will also get timely feedback and support to address challenges and achieve

academic success.This category will include high school, graduate and undergraduate students.

Applicant Students:

Applicant students are individuals who have formally applied for admission to academic institutions or programs but have not yet been admitted.

They are in the process of completing application requirements, submitting documents, and awaiting admission decisions. Applicant students may require assistance with navigating the application process, understanding admission requirements, and preparing application materials. These students will utilize features such as application checklists, admissions timelines, and tips for writing personal statements or essays.

Non traditional Students:

These may include adult learners, part-time students, or those returning to education after a hiatus. Their objectives may vary widely, from career advancement to personal fulfillment.Non-traditional students often have responsibilities such as full-time jobs or family obligations. The app can help them create personalized schedules that accommodate their unique commitments, ensuring they can balance their studies effectively.on-traditional students may be returning to school to advance their careers or switch to a new field. The app can offer career assessments, job market insights, and networking opportunities to help them align their education with their career goals and make informed decisions about their future.

Job/Internship Seeking:

Students-Job/internship seeking students are individuals who are actively seeking employment or internship opportunities to gain professional experience and further their career goals.They may be recent graduates,

current students, or individuals transitioning to new career paths.Job/ internship seeking students may require assistance with searching for job/ internship opportunities, preparing resumes and cover letters, and improving interview skills. The app will provide tools and resources to help these students create professional resumes, tailor cover letters, and prepare for interviews.

Tutors/Mentors

Mentors are individuals with expertise and experience in a particular field or industry who provide guidance, support, and advice to students.

They may be faculty members, alumni, professionals, or peers who are willing to share their knowledge and insights with students.Mentors play a crucial role in helping students navigate academic and career-related challenges, explore opportunities, and develop skills and competencies.The mentors will utilize features such as mentorship matching, messaging, virtual meetings, and resource sharing.

Section 3

Requirements

3.1 Functional Requirements

User Profile Creation and Management:

Allow users to create and customize their profiles, including academic interests, career goals, and personal preferences.

Support for different user roles, such as general students, applicant students, non-traditional students, job/internship-seeking students, and tutors/ mentors.

Personalized Guidance and Recommendations:

Implement machine learning algorithms to analyze user data and provide personalized academic, career, and personal development recommendations. Feature to set and track personal and academic goals, with progress indicators and suggestions for improvement.

Smart Scheduling and Reminders:

Custom schedule creation based on user's academic obligations, deadlines, and preferences. Integration with calendar apps and push notifications for upcoming tasks and deadlines.

Resource Library:

Curate and recommend resources tailored to the user's academic interests and career goals, including study guides, articles, videos, and external courses. Enable access to online workshops, tutoring sessions, and courses relevant to the user's field of study or interest.

Social and Community Integration:

Features to connect with peers, mentors, and alumni for collaboration, networking, and information sharing. Study groups, discussion boards, and mentorship program functionalities.

Feedback and Improvement Loop:

Collect user feedback through surveys, ratings, and interaction data to refine recommendations and services. Machine learning models that adapt and improve based on user feedback and behavior.

Career Services:

Tools for building resumes, cover letters, and interview preparation.

Job and internship search functionalities with filters for industry, location, and role.

Security and Privacy Management:

Strong authentication mechanisms, data anonymization, and encryption protocols to protect user data. Compliance with relevant data protection laws and transparency about data usage.

3.2 Non-Functional Requirements

Usability:

User-friendly interface with intuitive navigation and accessible design for diverse user groups. Personalized dashboards that present relevant information and recommendations clearly.

Performance:

Fast response times for user interactions and data processing.

Efficient handling of large datasets and user requests to provide timely recommendations and updates.

Scalability:

Cloud-based architecture to easily scale resources in response to fluctuating user numbers and data volumes. Modular design to facilitate the addition of new features and user categories.

Reliability:

High availability of the application with minimal downtime.

Robust error handling and data backup mechanisms to prevent data loss.

Security:

Implementation of industry-standard security practices to safeguard user information and interactions.

Regular security audits and updates to address emerging threats and vulnerabilities.

Privacy:

Strict adherence to privacy laws and regulations, with clear user consent forms and privacy notices.

Features that allow users to control their personal data and preferences, including data deletion options.

Portability:

Compatibility with both iOS and Android platforms to cater to a wide user base.Responsive design to ensure usability across different devices and screen sizes. These requirements will serve as the foundation for the development, testing, and iteration of the Student Assist application, aiming to create a comprehensive tool that supports students in achieving their academic and career objectives.