Team FLUX

Members: Acquiat, Hao, and Mejia

Overview:

Education has evolved significantly in recent years due to the growing adoption of online learning systems. While these platforms provide simple access and flexibility, they also pose student issues. One big problem is that students struggle to keep organized and efficient because of the volume of work they must manage online, such as assignments and deadlines. It can lead to increased stress and worse productivity.

Furthermore, the fragmented experiences of students are often the outcome of the ineffective integration of necessary tools and resources in the current online learning systems. The lack of efficient solutions for collaboration, organizing, and academic support increases the difficulties of online learning settings. Students must, therefore, navigate a confusing variety of platforms and resources, making it difficult to maximize their educational experience altogether.

In addition to organizational issues, the isolation inherent with online learning may impede collaboration and peer connection, depriving students of significant chances for participation and knowledge sharing. The lack of a thriving social hub on these platforms further isolates students, reducing their capacity to make meaningful relationships and build support networks.

Students in online learning environments also have to deal with the significant problem of not having instant access to individualized academic help. When students struggle to understand course content or grapple with complex concepts, they frequently need help from knowledgeable teachers or tutors. However, the lack of easily accessible tutoring tools on current platforms prevents students from getting help when needed, which impedes their academic growth and makes them feel even more frustrated and disengaged.

Given these limitations, it is critical to identify solutions to make online learning more effective and accessible. By identifying and addressing these problems, we can enhance the entire learning experience and assist students in achieving success in digital education.

Solving the Problem:

Our team proposes developing an all-in-one student platform to solve the organizational and pacing problems that students face in online learning environments. This platform will include comprehensive features like task tracking, deadline reminders,

and collaborative study group facilitation, all intended to improve time management and lower academic stress. Gamified components such as flashcards and quizzes will also be included to enhance the engagement and effectiveness of studying. The application will also offer an on-demand tutoring tool to connect students with trained teachers for personalized online sessions. To guarantee that the platform satisfies the demands of its users, thorough surveys with 10-20 respondents will be undertaken to solicit feedback on desired features and usability preferences. Following data collection and analysis, the platform will be developed using a user-centric approach, with functions and design features targeted to improve students' online learning experiences.

The Application:

Application Name: AcademiX

Description:

- AcademiX is an all-in-one student platform designed to address the critical challenges faced in online learning environments. Developed by Team FLUX, AcademiX aims to streamline the educational experience by providing a comprehensive suite of tools to help students stay organized, reduce stress, and enhance their productivity. Our platform integrates essential features to ensure that students can effectively manage their academic responsibilities and foster a collaborative and supportive online community.

Key Features:

- **Task Tracking and Deadline Reminders:** Simplify your workflow with intuitive task management tools that allow you to keep track of assignments, set deadlines, and receive timely reminders to stay on top of your academic schedule.

- **Collaborative Study Groups:** Facilitate effective collaboration through virtual study groups where students can share resources, discuss topics, and work together on projects, bridging the gap created by the isolation of online learning.

- **Gamified Learning Tools**: Enhance your study sessions with engaging gamified elements such as flashcards and quizzes. These interactive tools are designed to make learning more enjoyable and effective, helping you retain information better.

- **On-Demand Tutoring:** Access personalized academic assistance with our on-demand tutoring feature. Connect with experienced teachers and

tutors for one-on-one sessions to help you understand complex concepts and improve your academic performance.

- **User-Centric Design:** AcademiX is developed based on extensive feedback from students. Our team conducts thorough surveys to understand the needs and preferences of our users, ensuring the platform is tailored to enhance the online learning experience.

Questions about the Application:

- **Who are the potential users?**
  - AcademiX caters primarily to students engaged in online learning, and educators such as teachers and tutors who support them in their academic journey**.**

- **What tasks do they seek to perform?**
  - Students use AcademiX to organize their assignments and deadlines efficiently and access personalized tutoring when needed. Teachers and tutors utilize it to provide tailored academic support and facilitate collaborative learning activities.

- **What functionality should any system provide to these users?**
  - AcademiX offers students features like task tracking and deadline reminders for efficient organization, along with on-demand tutoring sessions for personalized academic support. Teachers and tutors can utilize the platform to conduct personalized tutoring sessions and facilitate collaborative activities among students.

- **What constraints will be placed on your eventual design?**

  - **Usability:** To combat the problem of disorganization and inefficiency among students due to the overwhelming volume of online work, AcademiX must be designed with a user-friendly interface. Complex features should be simplified, and navigation should be intuitive to ensure students can easily manage their tasks.

  - **Accessibility:** Addressing the problem of fragmented experiences in current online learning systems, AcademiX must be accessible to all users, including those with disabilities. This

ensures that every student can fully engage with the platform's features and resources.

- **Security:** To counter the lack of efficient solutions for collaboration and academic support, AcademiX must prioritize security measures. This involves safeguarding student data and privacy, crucial for maintaining trust and compliance with data protection regulations.

- **Scalability:** Given the problem of isolation and the need for effective collaboration, AcademiX must be designed with scalability in mind. As more students and educators use the platform, it should be capable of accommodating increased demand without sacrificing performance or usability.

- **Integration:** To address the problem of navigating multiple platforms and resources, AcademiX must seamlessly integrate with existing online learning systems. This ensures a unified experience for students and educators, reducing confusion and maximizing the educational experience.

- **Criteria for Judging Success:**
  To judge the success of our design for AcademiX, the following criteria are essential:

  - **User Satisfaction:** Measure user satisfaction through feedback and surveys to ensure AcademiX meets their needs effectively.

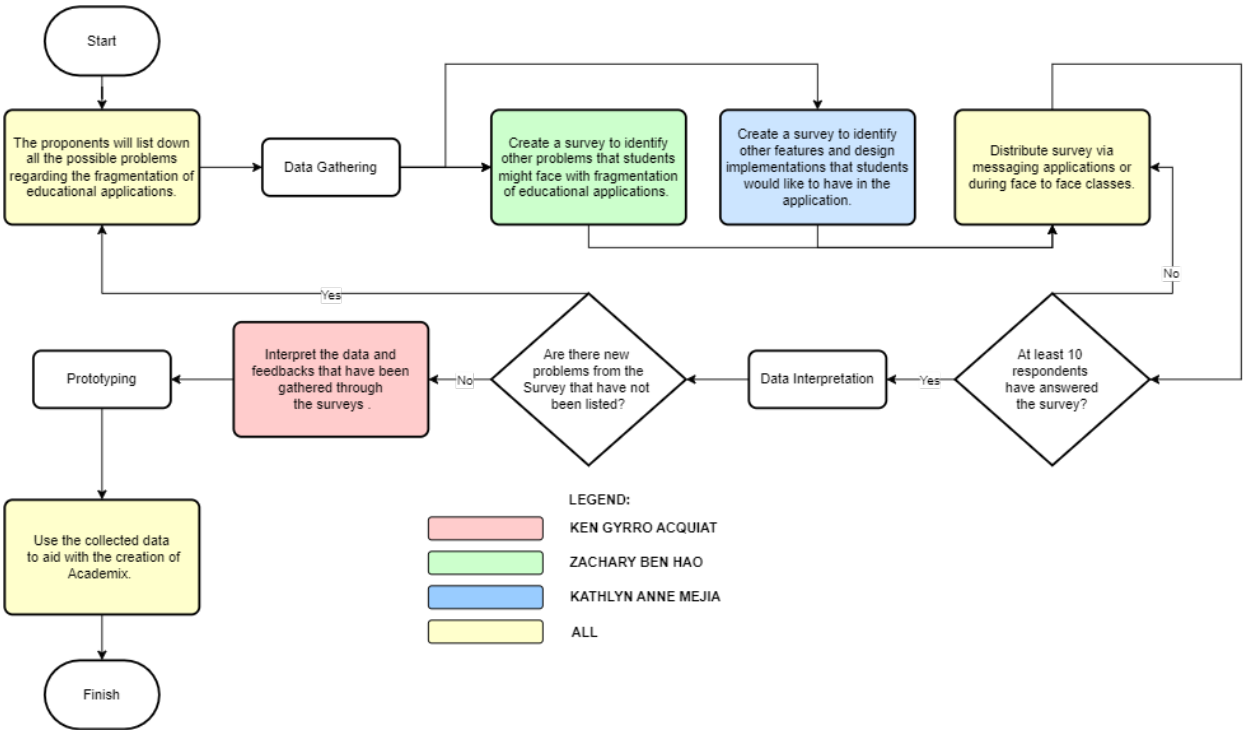
  - **Platform Usage:** Track the number of active users, frequency of use, and engagement with features to gauge adoption and integration into academic routines.

  - **Academic Performance:** Evaluate improvements in grades, retention rates, and student engagement to assess AcademiX's impact on learning outcomes.

  - **Feedback and Iteration:** Continuously gather user feedback to identify areas for improvement and iterate on the design to better meet user needs.

  - **Accessibility and Security:** Ensure AcademiX is accessible to all users and maintains high levels of security to protect user data and privacy.

- **Approach:**


Start
The proponents will list down all the possible problems regarding the fragmentation of educational applications.
Data Gathering
Create a survey to identify other problems that students might face with fragmentation of educational applications.
Create a survey to identify other features and design implementations that students would like to have in the application.
Distribute survey via messaging applications or during face to face classes.
No
Yes
At least 10 respondents have answered the survey?
Yes
Data Interpretation
Are there new problems from the Survey that have not been listed?
No
Interpret the data and feedbacks that have been gathered through the surveys .
Prototyping
Use the collected data to aid with the creation of Academix.
Finish
LEGEND:
KEN GYRRO ACQUIAT
ZACHARY BEN HAO
KATHLYN ANNE MEJIA
ALL