Design Support Documents

CS SCHEDULER APP

APP IDEA

An advanced academic scheduling app for Computer Science departments, facilitating seamless schedule creation based on previous years. Features include course information tracking, conflict detection (e.g., courses commonly taken together), faculty assignment alerts, and note-taking capabilities for better planning. Enhance efficiency, reduce errors, and streamline the scheduling process for optimal academic planning.

Team Members:

UX Consultants:

1. Thanuja Maddali
2. Nikhil Nandala
3. Satyanarayana Velamala

Developers:

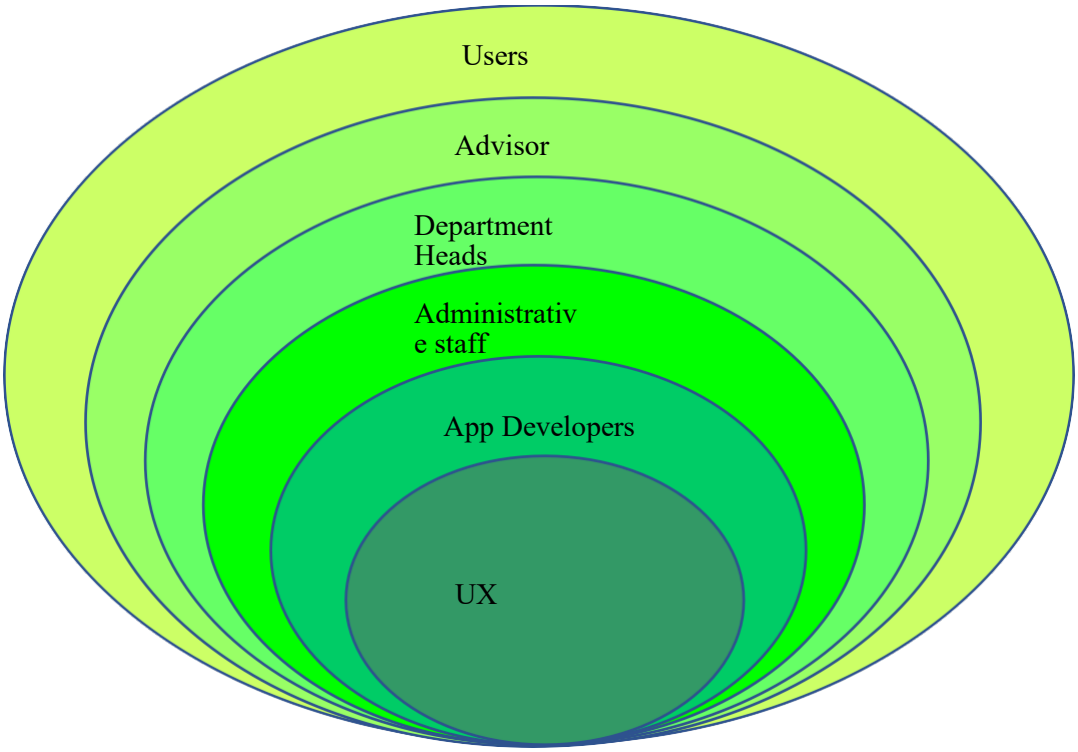
1.Alex McWilliam
2.Will Sisson
3.Tyler Poirier
4.Kolby Swanson
5.Edward Fairchild
6.Collin Attard

Scientists:

Linda Ott

Stakeholder Analysis:

Onion model



Stakeholder Description

UX Consultants: Give UI evaluation and implement usability testing on the app, meanwhile provide constantly feedbacks for app developers during the app development process.

App Developers: Have the main responsibility to design and develop the app, according to the feedbacks from the UX Consultants.

Administrative Staff: Responsible for maintaining faculty assignments, resolving conflicts, and ensuring the smooth operation of the scheduling system.

Advisor:Guides students in course selection and monitors academic progress over multiple semesters.

Department Heads: Has the ability to view and oversee entire department course schedules, managing and allocating department resources.

Users : Utilizes the scheduler for efficient course selection and academic planning

Stakeholders' goal-influence table

Stakeholders	Goals	Contributing Influences	Constraining Influences
UX Consultants	Collaborate with App developer to develop a perfect app	Provide testing feedback to developers and steer the team on the right way	Monitor the project and make sure it fulfills the client requirements
App Developers	Collaborate with UX consultant to develop a perfect app	Design and write code for on the project according to the feedback from consultants	Work on the project and make sure it fulfills the client requirements
Administrative Staff	Maintain faculty assignments, resolve conflicts, ensure smooth operation	Collaborate with developers to improve scheduling features	Limited time for training and Adaption
Department Heads	View and Oversee Department course Schedules, Manage resources	Collaborate with developers for enhanced department features	Resistance to change in Established Department Process
Advisor	Guide Students in course Selection,Monitor Academic Progress	Provide Feedback on User interface and student Monitoring	Limited time for Additional Advisory Task
Users	Efficient use the scheduler for Course Selection and Academic Planning	Provide Feedback on Usability and feature preferences	Limited time for Learning and adapting to new Features

Personas

Certainly! Here are personas for the CS Scheduler app, focusing on Users, Advisor, Department Heads, and Administrative Staff:

Primary Stakeholder:

User Persona - Alex, the Computer Science Student:

Age: 22

Tech Expertise: High (proficient with various programming languages and software tools)

Education: Bachelor's degree in Computer Science

Daily Life: Attends computer science classes, works on coding projects, participates in extracurricular activities.

Needs: Requires an efficient scheduler to manage project timelines, assignment deadlines, and class schedules. Seeks a user-friendly interface with quick access to relevant information.

Secondary Stakeholders:

Advisor Persona - Professor Taylor, Computer Science Advisor:

Age: 40

Tech Expertise: Moderate (comfortable with office software and academic platforms)

Education: PhD in Computer Science

Daily Life: Advises computer science students, manages academic schedules, provides guidance on course selection.

Needs: Requires an intuitive scheduling app to help students plan their courses effectively. Prefers features for monitoring student progress and facilitating communication.

Department Head Persona - Dr. Rodriguez, Computer Science Department Head:

Age: 50

Tech Expertise: Basic (comfortable with standard office tools)

Education: PhD in Computer Science

Daily Life: Oversees the Computer Science department, manages faculty assignments, ensures smooth operation of academic activities.

Needs: Needs a scheduler app for efficient department-wide resource allocation, faculty management, and conflict resolution. Prefers a system that integrates with existing department processes.

Administrative Staff Persona - Lisa, Administrative Coordinator:

Age: 35sa

Tech Expertise: Basic (comfortable with standard office tools)

Education: Bachelor's degree in Business Administration

Daily Life: Coordinates administrative tasks, manages schedules, resolves conflicts, and ensures the smooth operation of the department.

Needs: Requires a scheduler app to streamline administrative processes, manage faculty assignments, and resolve conflicts efficiently. Prefers user-friendly features for seamless coordination.

HIERARCHICAL TASK ANALYSIS

Certainly! Here's a condensed version of the Hierarchical Task Analysis for the CS Scheduler app:

Authentication and Account Management:

Log in with existing credentials or create a new account.

Manage user profile, preferences, and saved observations.

Observation Recording:

Access observation form, navigate sections.

Enter details, such as species, date, time, location, and optional information.

Upload photos and/or audio recordings, add observation notes.

Review and submit observations online or save for offline upload.

Observation Management:

View, edit, or delete saved offline observations.

Upload saved observations online, monitor progress.

View history of uploaded observations, filter and search.

Additional Features:

Access help, FAQs and tutorials, or contact support.

Configure app settings, check version information, and provide feedback.

Ensure offline functionality, define GPS accuracy, and optimize the UI for mobile devices.

Address accessibility concerns, prioritize data security, and integrate with the Michigan Herp Atlas database.

Notes

Main Overview:

Objective: Develop a CS scheduling app to replace an outdated system.

Integration with the university-wide system.

Emphasis on easy updates and adaptability to unique scheduling scenarios.

Manual override feature for handling exceptions.

Check for multiple courses at the same time and avoid concurrent scheduling of related classes.

General Requirements:

Target Audience: Primarily focused on the Computer Science department.

Usability: Faculty-only access with a course-ordered display and highlighted information.

Data Management: Query past course instructors and frequency. Toggleable display for potential conflicts.

Scope: Each department could have its version, but priority is CS.

Integration: No direct integration with the university system; focus on CS scheduling needs.

Design Considerations:

Platform: Desktop application.

Usage: Clarify where and when the app will be used.

Feedback: Set up recurring meetings with the HIDE team for collaboration.

Documentation and Resources:

Limited design documentation available.

Consider obtaining university scheduling forms for reference.

Future Meetings:

Plan for future meetings to check on app progress.

Discuss alternate meeting times.