

KAPP Application

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Vision Statement

For KU students who need a better way to navigate their way through campus and want to know more about campus events, the KAPP is a mobile phone application that allows students to view interactive maps of buildings on campus, view events around campus in real-time, and access personal information such as schedules, grades, and student IDs. Unlike Canvas and Blackboard, KAPP aims to excel in functionality and user-friendly interfaces so that students can easily access KU-related information. Our product enables students to view a wide range of data easily from their mobile devices and will foster a significant increase in student involvement around campus.

Project Overview

Purpose

This application was created to provide students with one location where they can access their grades, schedules, personal information, and view KU-related information including events and a map. Instead of needing to access different applications like Canvas, Blackboard, and Enroll & Pay, users will be able to view all of this information from the KAPP Application.

Domain

Education Application

Expected Users

Expected users include KU students, faculty, and staff.

Motivation

Our motivation comes from our dissatisfaction with current KU-related systems and platforms. There are too many applications located in different places.

Features & Functionality

Key Features

KU Single Sign On

This use case allows the user to sign into their KAPP account using the KU Single Sign On system.

Map

This use case allows the user to view an interactive map of the Lawrence campus.

Events

This use case allows the user to view a real-time list of KU events imported from the KU website.

GPA Calculator

This use case allows the user to input their courses and grades to calculate their overall GPA.

Canvas & Blackboard

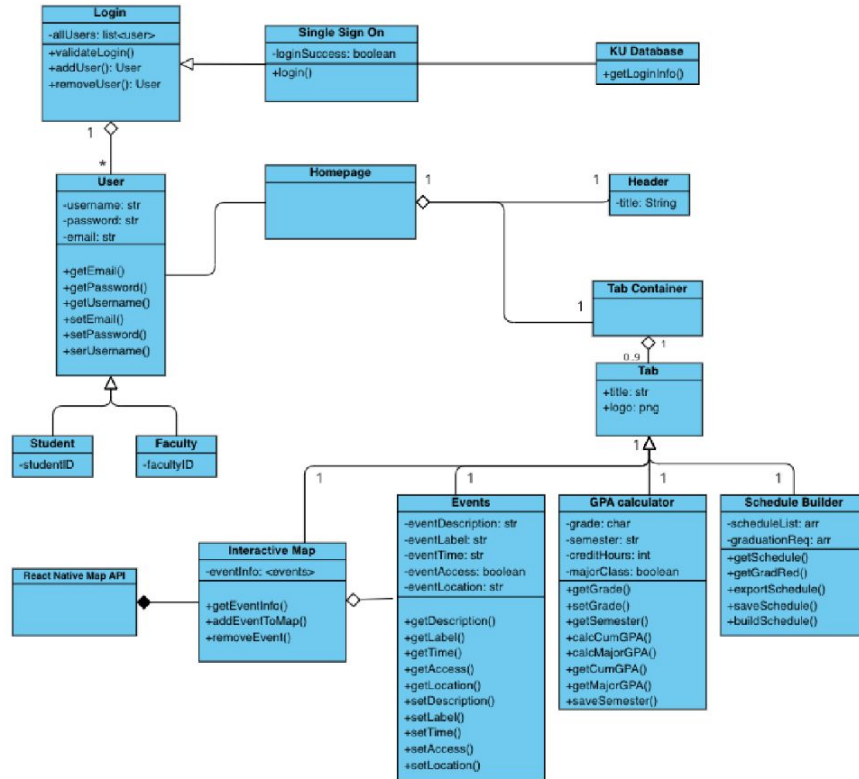
This use case directs students to other KU-related platforms including Canvas & Blackboard.

Essential Requirements

- The app must be executable on mobile devices.
- KAPP must communicate with KU servers in order to facilitate login and get a list of classes. It also must have permissions to download schedule information onto the user's personal calendar.
- KAPP must be intuitive and easy to use for all users.
- KAPP must be secure to prevent loss or theft of user's data.

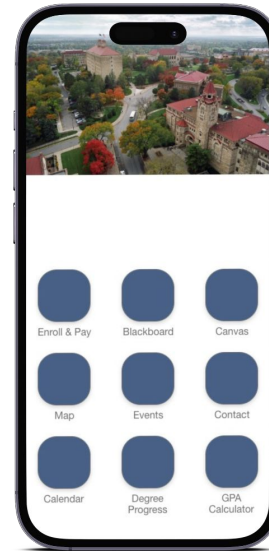
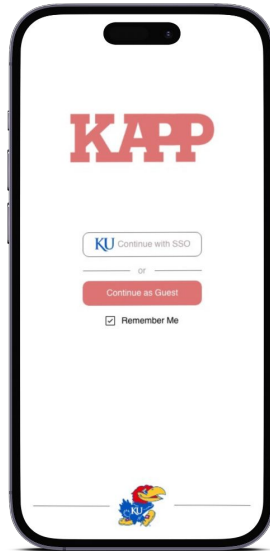
Design,
Implementation, &
Deployment

5.2.3 Design Model: Class Diagram

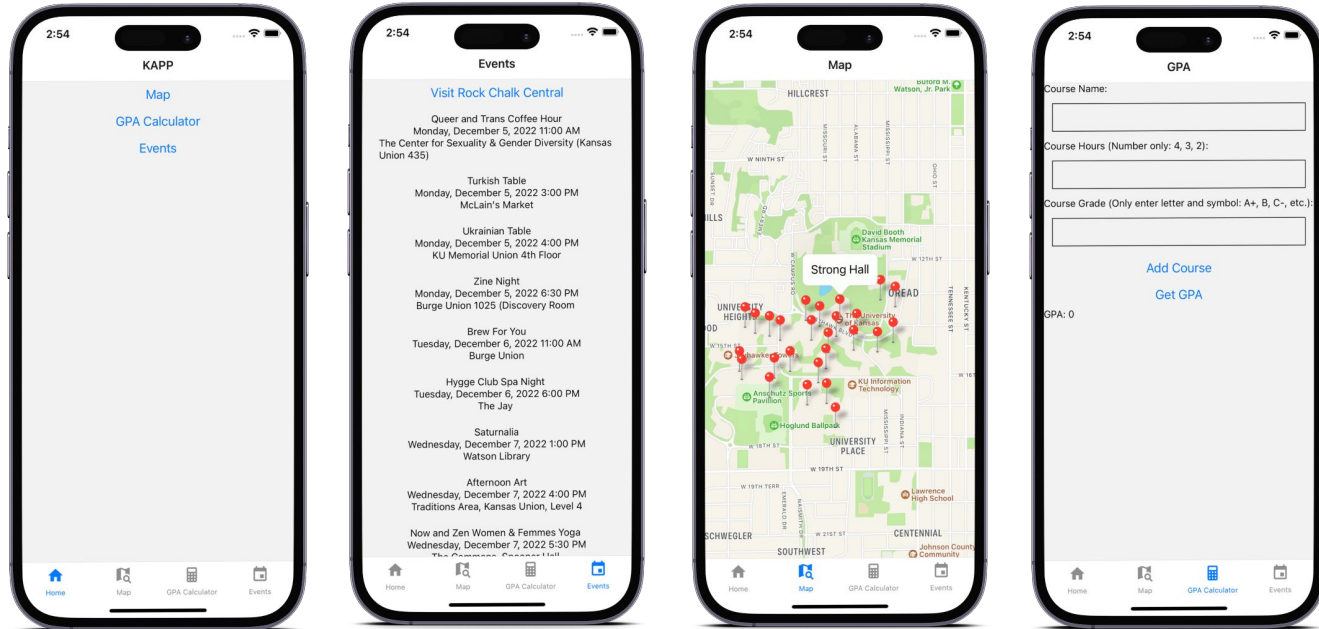


Interface

Proposed UI/UX



Implemented UI/UX



Technologies Used

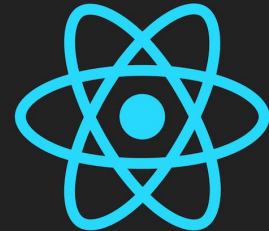
- React
- React Native
- JavaScript
- Node.JS
- Fetch
- NPM
- RSS
- JSON
- JSX
- HTML
- CSS
- Adobe XD
- GitHub
- React Navigation
- Material UI
- Xcode
- Android Studio
- VS Code
- GitHub Copilot
- GitHub Codespaces



JavaScript



GitHub



React Native

Project Management

Project Management Tools

- Trello
- Google Calendar
- iMessage
- Email
- Google Drive
- GitHub
- Zoom



Team Roles

Team Administrator: Tanner Helton

UI/UX Coordinator: Chris Stillman

Project Manager: Adam Jolles

Scrum Master: Troy D'Amico

Backend Coordinator: Thomas Gansner

Team Meeting Standards

- Primarily over Zoom
 - For meetings in person, we met at the Library and the Engineering Building
- Meetings were primarily held on Sunday afternoons

Thank you for your
time.