**SP-100 — Campus AI Companion**

**CS 4850 - Section 02 – Fall 2024**

**September 01, 2024**

Team Members:

|  |  |  |  |
| --- | --- | --- | --- |
| Roles | Name | Major Responsibilities | Contact (cell Phone) |
| Project Owner | Fredy | Overall project oversight and direction  Backend development (Node.js, Express.js) | 470.836.8552 |
| Team Leader | Dorian | Intermediate between Advisor and team.  Frontend development (React Native, TailwindCSS) | 470.439.9907 |
| Team Members | Yann | Frontend development (React Native, TailwindCSS) | 404.649.4887 |
| Leopold | Backend development (Node.js, Express.js) | 470.838.2345 |
| Manuella | Develop and manage the project.  Monitor project progress.  Documentaion | 404.599.6647 |
| Advisor / Instructor | Sharon Perry | Facilitate project progress; advise on project planning and management. | 770.329.3895 |

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# **Project Overview**

University AI Companion is an AI-powered platform, built upon ChatGPT, designed to assist Computer Science majors with navigating their academic and career-related challenges. It offers personalized guidance, connects students to relevant resources, and helps them achieve their career goals. Initially focusing on CS students, the platform aims to expand to other disciplines. The mobile app will feature a frontend built with React Native and TailwindCSS, while the backend will utilize Node.js and Express.js, integrating the OpenAI API for AI interactions. Data management will be handled through Firebase Authentication, Firebase Storage, and MongoDB.

# **Project website**

(This is a not yet our project’s website)

https://d2l.kennesaw.edu

# **Deliverables**

* Team/Project Selection document
* Weekly Activity Reports
* Team Status Report
* Peer Reviews
* Project Plan
* SRS, SDD, STP & Dev Doc
* Present Prototype for Peer Review
* Final Report Package
  + - Final Report
    - Source Code
    - Website
    - Video Demo
    - iOS and Android compatible mobile apps
  + C-Day Application/Submission

# **Milestone Events**

1. **Project Kickoff**
   * **Date:** August 17, 2024
   * **Tasks:** Initiate the project, define objectives, team roles, and establish collaboration tools and communication channels.
2. **Learning Phase**
   * **Date:** August 20, 2024
   * **Tasks**: Acquire necessary knowledge necessary for the implementation of our project such as React Native and MangoDB
3. **Initial Research and Planning**
   * **Date:** August 24, 2024
   * **Tasks:** Conduct initial research, finalize project scope, and begin drafting the Software Requirements Specification (SRS) and Software Design Document (SDD).
4. **Completion of SRS and SDD**
   * **Date:** September 7, 2024
   * **Tasks:** Complete detailed SRS and SDD, outlining all requirements and design elements.
5. **Prototype Development**
   * **Date:** September 21, 2024
   * **Tasks:** Develop a basic prototype of the Campus AI Companion with core functionalities.
6. **Peer Review and Feedback**
   * **Date:** October 5, 2024
   * **Tasks:** Present the prototype for peer review and gather feedback.
7. **Feature Implementation and Testing**
   * **Date:** October 19, 2024
   * **Tasks:** Implement feedback from peer review, complete feature development, and conduct initial testing.
8. **Final Feature Completion**
   * **Date:** November 2, 2024
   * **Tasks:** Complete all planned features and prepare for the full testing phase.
9. **Comprehensive Testing**
   * **Date:** November 16, 2024
   * **Tasks:** Perform thorough testing, including security, usability, performance, and integration testing.
10. **Final Adjustments and Documentation**
    * **Date:** November 23, 2024
    * **Tasks:** Make final adjustments based on testing results and finalize all project documentation, including user manuals and technical guides.
11. **Final Presentation and Submission Preparation**
    * **Date:** November 30, 2024
    * **Tasks:** Prepare the final presentation, video demo, and compile the final report package.
12. **Project Submission and C-Day Application**
    * **Date:** December 2, 2024
    * **Tasks:** Submit the final project deliverables, including source code, reports, apps, and C-Day application.

# **Meeting Schedule Date/Time**

The table below shows an attempted meeting schedule with corresponding date and time. But this schedule is subject to change. All group members are concerned with these meetings

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Time** | **Objective** | **Place** |
| 08/17/2024 | 10a.m. – 11a.m.. | Kickoff meeting | Teams |
| 08/19/2024 | 07:00p.m. – 08:00p.m. | Project’s scope and plan | Teams |
| 08/25/2024 | 07:00p.m. – 08:00p.m. | SRS and SDD | Teams |
| 08/26/2024 | 04:15p.m. – 04:20p.m. | Presentation of SRS to Advisor | Teams |
| 08/27/204 | 07:00p.m. – 08:00p.m. | SRS, SDD and Project Plan | In person at Upointe Kennesaw |
| 09/01/2024 | 07:00p.m. – 08:00p.m. | Start of Design Phase | Teams |
| 09/08/2024 | 07:00p.m. – 08:00p.m. | Overview of Design | In person at Upointe Kennesaw |
| 09/15/2024 | 07:00p.m. – 08:00p.m. | Start of Implementation | Teams |
| 09/22/2024 | 07:00p.m. – 08:00p.m. | Defining Restful API endpoints  Handle Authentication Module | In person at Upointe Kennesaw |
| 09/29/2024 | 07:00p.m. – 08:00p.m. | Data Processing  Open API Integration | Teams |
| 10/06/2024 | 07:00p.m. – 08:00p.m. | Frontend setup  Building the login screen | In person at Upointe Kennesaw |
| 10/13/2024 | 07:00p.m. – 08:00p.m. | Adding interactions with the backend for the home and login screen | Teams |
| 10/20/2024 | 07:00p.m. – 08:00p.m. | Handling Notifications and other final features | In person at Upointe Kennesaw |
| 10/27/2024 | 07:00p.m. – 08:00p.m. | Draft Final Report and Prepare presentation materials  Last implementation meeting | Teams |
| 11/03/2024 | 07:00p.m. – 08:00p.m. | Start of Testing and Evaluation | In person at Upointe Kennesaw |
| 11/10/2024 | 07:00p.m. – 08:00p.m. | Overview of Documentation |  |
| 11/17/2024 | 07:00p.m. – 08:00p.m. | C-Day Event Preparation | In person at Upointe Kennesaw |
| 11/24/2024 | 07:00p.m. – 08:00p.m. | Testing Completion, Report Refinement | In person at Upointe Kennesaw |
| 12/01/2024 | 07:00p.m. – 08:00p.m. | Final Report Package Submission | In person at Upointe Kennesaw |

# **Collaboration and Communication Plan**

The team will communicate through Microsoft Teams and Discord for collaboration. Weekly meetings will be held via Teams, with additional check-ins as necessary. Version control will be managed using a group GitHub account, ensuring all team members can track and contribute to code changes in a centralized repository.

# **Project Schedule and Task Planning**

The project will be broken down into several stages, including:

* **Planning:** Initial project setup, including role assignment and requirement gathering.
* **Requirements Analysis:** Drafting and finalizing the Software Requirements Specification (SRS).
* **Design:** Development of the Software Design Document (SDD), including system architecture and design considerations.
* **Development:** Implementation of the frontend, backend, and AI integration.
* **Testing:** Comprehensive testing of all features, including usability and security testing.
* **Deployment:** Deploy the final version of the application to the App Store and Play Store.
* **Final Reporting:** Compilation of all project deliverables, including the final report and demo video.

# **Version Control Plan**

The team will utilize a group GitHub account for version control, which will allow for seamless collaboration and centralized management of code. Regular commits, pull requests, and branch management practices will be followed to maintain code integrity and facilitate smooth integration across different parts of the project.