

CS/SE/CE 3354 Software Engineering

Project Proposal

Calendar App: OnTime

Group Members

Aidan Casimir
Satish Parajuli
Venkatasai Gudisa
Lance Miller
Josh Sebastian
Kayla Burks
Azlaan Shafi

Proposed Implementation

We will be implementing a calendar web app that implements all features expected of a calendar. This includes event scheduling, time conflict checking, recurring events, time based notifications (2 hr., 1 hr., 30 minutes, etc.) before event, calendar “profiles” for easy event grouping, options to embedded hyperlinks, location data, descriptions, etc. These are our current goals as of right now, a much greater and in depth layout will be provided in Deliverable #1

Motivation

We chose to implement a calendar app as it is the most approachable project that everyone would be able to contribute to and learn from. There is a lot of potential to make a well-polished calendar webapp, and the concept is simple enough at its core that the opportunities for unique and interesting features are present.

We expect this design to be used as an alternative to the already well-established calendar apps from big tech companies such as Google and Apple. It is well known that Google tracks and sells a lot of its user data, so an open source (via public Git repo), and ideally locally run calendar system would give peace of mind to data conscious users. While this does open the question of interoperability with pre-existing databases, e.g. you schedule an appointment with your Gmail account, and it gets automatically added to your Google calendar. But that’s a feature implementation that needs to be considered fully by the group as a more realistic vision is procured.

Delegated Tasks by Member

1.1. Deliverable # 1 [Each member's tasks]

- Aidan Casimir: I will be setting up the git repository for the team, adding everyone and ensuring it stays well maintained. I will also focus on the architectural design of the project, using a layered architecture pattern.
- Lance Miller: I will be creating the first commit to the repository. I will make the required read me file.
- Josh Sebastian: I will be working on the general layout of the calendar and how different pages should look.
- Kayla Burks: I will begin to generate ideas for the different features of our calendar as well as familiarize myself with UI tools.
- Satish Parajuli: I will work on the backend of the application and how the information/data input by the client is stored.
- Venkatasai Gudisa: I will work with the others to create the Sequence Diagram, Class Diagram, and Software Process Model in order to get more experience modeling and planning out software projects.
- Azlaan Shafi: I will work on designing a relational database to store and manage the data that will be needed for the calendar

1.2. Deliverable # 2 [Each member's tasks]

- Aidan Casimir: I will be focusing on the back end of the calendar program and providing input and work toward the front end as needed. I will also look further into free API implementation that improves the usability and user experience of our calendar web app. I will assist with product design aesthetics as well.
- Lance Miller: I will be focusing on the back end of the calendar program. Helping create the functional parts of the app.
- Josh Sebastian: I will be focusing on the front end of the calendar, working on the general layout and how specific events appear.
- Kayla Burks: I will work on developing the UI and gathering feedback from others on issues they face concerning design with other calendar apps.
- Satish Parajuli: I will work on figuring out how to bring the data out of the database(s) in the back and allow them to be used in the front end.
- Azlaan Shafi: I will write the SQL for the relational database and make sure it can be integrated to the full program.

Total Tasks

1.3 Deliverable # 1 [All Group tasks]

- Architecture Design Diagram (Aidan Casimir)
- Sequence Diagram (Venkatasai Gudisa)
- Use Case Diagram (Josh Sebastian)
- Class Diagram (Venkatasai Gudisa)
- Requirements (Kayla Burks)
- Software Process Model (Venkatasai Gudisa)
- Proposal Feedback Addressing (Kayla Burks)

- Report Drafting (Aidan Casimir)
- Database Design (Satish Parajuli, Azlaan Shafi)

1.4 Deliverable # 2 [All Group Tasks]

- Scheduling (Aidan Casimir)
- Test plan (Aidan Casimir)
- Cost, Effort, and Pricing Estimation (Azlaan Shafi)
- Report Drafting (Aidan Casimir and below)
 - Comparison w/ Similar Software (Josh Sebastian)
 - Conclusion (Kayla Burks)
 - References (Satish Parajuli)

