

Favian Quach
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Application C Requirements Documents

1.Introduction

1.1 Overview

This application is a task organization app that would allow users to organize their day using a calendar with user created events that will help user organize their busy schedule. That will give users many options on how to view their events and tasks assigned to them, as well as allow users to share events and tasks with groups.

1.2 Scope

This system will be based off users being able to create and customize two objects, events and tasks, in order to better organize their individual lifestyles or better organize group work so there is less of a challenge to fall behind in daily tasks

2.Features

2.1 Main Objects

There are two defined objects needed for this Application; an event and a task. An event will be a user defined activity that needs to be completed with a start and due date. Each event will have an designated owner defaulting to the event creator. The even creator can then assign that event to a certain group or users and give them access to add tasks to the event. The defined fields for each event will be; Event Creator, Date Created, Event Description, Event Title, and Event Due Date.

A Task will need to be defined under an event by users which are smaller activities that can be assigned to multiple users tied to an event that contribute to the overall completion of the event. Tasks can be colored defined in order to visually organize what the task is within an event. The

user can change and edit the event at any time, this would also include to mark the task as completed. A task will have the following defined fields; Task Creator, Date Created, Task Description, Task Assigned-To, Task Comments, Task Due-Date (Must be before Event Due Date).

2.2 User Views

The Application would have a layout similar to a calendar, there would be a year, month, week, and day view. The user will be able to choose a default view, so they will not have to constantly change view when entering the application. Also users will be able to freely switch between views through a dropdown option that will list each view so the user can choose which view they want displayed. At any time in each view there will be a visible **ADD** button to add a new event. Each will display the following;

- The Year View will display the current year with options to look at previous or future years. The display for this will show all the months in the year with a exclamation mark next to months that have at least one event in them. If a user were to click the exclamation mark it will show the most recent events coming up in that month
- The Month View would display the days of the month and a colored dot for each event within that day. For cases that have more than 6 dots. The day would display a single dot along with the number of events for that day.
- The Week View would display the days of the week along with a due date timestamp on each day block, represented by a colored block with the time within it.
- The Day View would only show the contents for that day in a 48 block format (each block represent a 30-minute time frame of the day). Timestamps will be used to represent the event corresponding to the time it is due. These blocks would have user defined tags and colors. The calendar would display the time that the user would set upon creating the event. Further description and user comments would also show up if the user decides to expand the event.

2.3 Creating Events

Upon creating the event block the user would have to define: the time the event would start, the name of the event, a possible deadline for the event, and any additional comments. The event could then be shared to multiple users or groups. The shared event would be a copy of the event and users could then change the name or description without updating the event on other users application. However in the case that the user would like to update the event with any changes or comments, the user can decide to push changes or comments to the event to all participants only if they are the creator of the event or given access by the event creator. Tapping on an event will bring up a display of that even listing the time and date the event was created and the event creator, as well as the title of the event. Below this all tasks will be displayed in the event as well as the task creator.

2.4 Notifications

Users would be able to define notifications to remind them of upcoming events or deadlines. These notifications could be opted in or out at any time and would be user defined how often they would show up. Notifications would default to one notification or alarm an hour before the event but could be changed based on the user preferences.

2.5 Groups

Users can invite other users to groups. The user who initially invites all other users will have full admin access over the group and can assign admin access to other members which will allow them to add or remove members from the group. Users in a group can assign events to a group that will automatically send a notification to each group member that an event has been created. Then if users have admin access to the event they will be able to create and change tasks within the event.

2.6 To-Do View

For ease of access, there would be a To-Do screen that would display all the tasks that need to be done for the day along with any tasks that are marked as important or urgent. Daily tasks that appear in the To-Do screen would continue to stay on the screen until it has been marked as completed. The To-Do screen will be able to be viewed and accessed through an options menu.

2.7 Functions

- The application would allow users to Create, Edit, and Delete events and tasks. If they are the creator or have access by the creator.
- The application would also allow users to invite others, send and receive events and tasks.
- Users would be able to Label and Organize tasks in a supported manner.
- Users will be able to set and customize notifications and alarms for specific tasks and events.
- Allow users to create and add other users to groups to share events and tasks
- Allows user to change between different view options to have many options to see what events and tasks they have coming up

3.Product perspective

This application is independent but would include a widget display for ease of access.

3.1 System interfaces

The main system will control all aspects of the application. From event and task generation and editing. And the widget will be fully dependant on the main application and would only be able to display the event or task and mark them as completed.

3.2 User Interfaces

There will be a main calendar display when the main application is opened. There will also be a smaller widget display that the user can place on the main screen of their phone to monitor their tasks without opening the main application.

3.3 Hardware Interfaces

- This application will only currently have mobile support and will be created with the current android version Android Pie (9.0) in mind.
- Written with JavaScript support.

3.4 Communication Interfaces

Users will be able to send and receive invitations and events through the internet. Through client/server system.

3.5 Security

All users will have their information secured, and all user should be wary of all information shared with others and admin access given to untrustworthy users. All users will have the option to keep select what other users will be granted the same admin access as them to be able to change and add to events,

3.6 User characteristics

Application should be easy for everyone of all technical levels to use. It should be easy to main all event and tasks in an organized and pleasing way.