

## Software Requirements Specifications (SRS)

### For Calendar Project

#### Definitions, Acronyms and Abbreviations

View	A predefined interface layout that allows for granularity control of timespan in the calendar.
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#### Functional Requirements:

1. The monthly view shows all days in a month, and event snippet for each day.
  - 1.1 The system should display all of the days in the month in a tabular fashion.
  - 1.2 The system shall display the abbreviation of the currently viewed month.
  - 1.3 The system should display a symbol for days when an event will occur.
  - 1.4 The system should highlight the current day.
  - 1.5 The user shall be able to tap a specific day within the monthly view to access a daily view of that day.
  - 1.6 The user shall be able to swipe right and left to change the current month displayed.
2. The weekly view shows all days in a week, and events snippets for each day.
  - 2.1 The system should display all of the days in the week in a tabular fashion.
  - 2.2 The system should highlight the current day.
  - 2.3 The system should display a symbol for days when an event will occur.
  - 2.4 The system shall display the abbreviation of the current month and the number of the currently viewed week.
  - 2.5 The user shall be able to swipe left and right to go to the next or previous week
  - 2.6 The user shall be able to tap on any specific day to access the daily view of that day.
3. The calendar should have a daily view which shows events for the day in chronological order.
  - 3.1 The calendar should display the day as a scrolling layout with hours listed next to the event spaces.
  - 3.2 The calendar should display the name of the day and current date at the top of the daily view.
  - 3.3 The user should be able to swipe left and right to go to the previous or next day.
4. The user should be able to add an event with starting and ending time.
  - 4.1 The system should allow the user to add an event.
  - 4.2 The system should prompt the user for a starting time before adding an event.
  - 4.3 The system should prompt the user for an ending time before adding an event.
  - 4.4 The system should output a success message after an event has been successfully added.
  - 4.5 The system should display the event on the calendar.
5. The system should check time conflicts when the user adds events.

- 5.1 The system should check if there are time conflicts before outputting a success message.
- 5.2 The system should check if there are date conflicts before outputting a success message.
- 5.3 The system should warn the user if there is another event too close to the event that is being added.
- 6. The user should be able to add weekly periodical events.
  - 6.1 The system should allow the user to add events to reoccur periodically during the weeks.
  - 6.2 The system should prompt the user for which days they want to add the event to.
  - 6.3 The system should prompt the user for the starting time before adding the event.
  - 6.4 The system should prompt the user for the ending time before adding the event.
  - 6.5 The system should output a success message after the event has been successfully added.
- 7. The user should be able to edit and delete events.
  - 7.1 The user should be able to enter a new starting time when editing an event.
  - 7.2 The user should be able to enter a new ending time when editing an event.
  - 7.3 The user should be able to delete single events.
  - 7.4 If the event is weekly, the user should be able to delete one or all of the series.
- 8. The user should be able to add and delete event categories.
  - 8.1 The user should be able to choose the category of an event as it is being created.
  - 8.2 The user should be able to delete every event within a category by deleting the category.
  - 8.3 The user should be able to create a new event category when creating an event.
- 9. The system should allow for color marking for different categories of events.
  - 9.1 The system shall display social events highlighted in blue.
  - 9.2 The system shall display work/school events highlighted in red.
  - 9.3 The system shall display birthdays highlighted in yellow.
- 10. The user should be able to send events to other users.
  - 10.1 The user should be able to select whether or not they wish to receive events from other users.
  - 10.2 The user should be able to select an event and share it with another user by entering the receiving user's email.
  - 10.3 The user receiving an event should be able to add the event to their calendar or simply ignore it.
- 11. Holidays and weekends should be different colors.
  - 11.1 The system should designate a specific color for holidays.
  - 11.2 The system should designate a specific color to represent weekends.
- 12. The user should be able to scroll through weeks/months and zoom in.
  - 12.1 The user should be able to scroll between months in monthly view.
  - 12.2 The user should be able to scroll between weeks in weekly view.
  - 12.3 The user should be able to scroll vertically in daily view to see all hours.

12.4 The user should be able to zoom in during any view to enlarge the view.

### Use Case Diagram

