Team project requirements:

A complete set of functional requirements for the whole system. Each functional requirement shall contain both definition part and specification part in detail. For simple calendar system for personal use. The system shall provide the following services to a user:

* Add an event to the calendar, including conflict check of two events.
* Delete an event from the calendar.
* Edit an event on the calendar.
* View an event.
* View a monthly-based event list.
* The system shall allow a manager to coordinate a meeting for his/her teammates. To do this, the manager first chooses a date for holding a meeting, the duration of the meeting, and the members to attend the meeting. The system will then access the members’ calendars and find possible time slots for holding the meeting. The system will display a list of possible time slots to the manager. The manager will choose one from the list. The meeting event will be added to every participant’s calendar.
* Bonus An extra service is to allow the manager to delete a meeting event if the event was created by the same manager. I will make this operation as a bonus, and let you and your teammates decide whether you want to implement it or not.

Kenny

Lauren

Charles

Marshall

Functional Requirements:

1. The system shall allow the user to add an event to the calendar
   1. The system will display a calendar option; upon selecting the icon identified as a plus at the bottom of the screen.
   2. The user shall select the “Plus Icon” to reveal the calendar options.
   3. The user shall input a date the event will be added to, indicating the month, day, and year of this format mm/dd/yyyy.
   4. The system will display predetermined calendar event option menu the user may select from.
      1. The system will display the calendar event option “Add Event”.
      2. The system will display the calendar event option “Edit Event”.
      3. The system will display the calendar event option “Delete Event”.
   5. The user will select the event option “Add Event”, to add an event to the calendar.
   6. The system will display a predetermined but interactive menu where the user may input details of the added event.
      1. The user may select to input details pertaining to the Title of the event.
      2. The user may select to input details pertaining to the Location of the event.
      3. The user may select to input details pertaining to the Time of the event.
      4. ~~The user may select to input details pertaining to the Alarm of the event.~~
      5. The user may select to input details pertaining to include Notes of the event.
   7. The system will identify but allow for conflicts of events.
      1. The system shall allow the user to choose if the conflict is acceptable; by selecting “Yes” indicating that the user understands this event is duplicated but wishes to continue.
      2. The system shall allow the user to choose if the conflict is non-acceptable; by selecting “No” indicating that the user understands this event is duplicated but doesn’t wish to continue.
   8. The system will display a predetermined interactive button on the menu where the user may input details.
      1. The user may select the interactive button displaying “Save”, to save the event as well as adding the current event and its changes to the calendar.
      2. The user may select the interactive button displaying “Cancel”, to exit the event as well as deleting the current event and its changes to the calendar.
   9. The system shall return the user to calendar display.
      1. The system shall reveal all identified changes to the calendar.
         1. The system will add any new events to the selected date, indicating the new changes the user implemented.
         2. The system will delete any new events to the selected date, indicating the new changes the user implemented.
2. The system shall allow a user to delete an event from **his/her** calendar.
   1. The system shall display all events to the user.
   2. The system shall display the events within a calendar format.
   3. The user shall select an event in the calendar.
   4. The system shall display a description of the event.
      1. The system shall display the time of the event, and the manager who created the event.
   5. The user shall select “Options” in the description menu of the event.
   6. The system shall display the user-based options of the event.
   7. The user shall select “Delete Event From Calendar” in the description menu.
   8. The system will verify that the user wishes to delete the event; “Yes” (to delete the event) “No” (to keep the event).
      1. The system shall delete the event if the user selects “Yes”.
      2. The system shall not delete the event if the user selects “No” and return to Step 3.4.
      3. The system shall return to the event calendar.
3. The system shall allow the user to edit an event to the calendar.
   1. The system will display a calendar option; upon selecting the icon identified as a plus at the bottom of the screen.
   2. The user shall select the “Plus Icon” to reveal the calendar options.
   3. The user shall select a date the event will be edited from, indicating which month, day, and year from this format mm/dd/yyyy.
   4. The system will display predetermined calendar event option menu the user may select from.
      1. The system will display the calendar event option “Add Event”.
      2. The system will display the calendar event option “Edit Event”.
      3. The system will display the calendar event option “Delete Event”.
   5. The user will select the event option “Edit Event”, to change an event to the calendar.
   6. The system will display a predetermined but interactive menu where the user may make changes to the previous input details of an added event.
      1. The user may select to change details pertaining to the Title of the event.
      2. The user may select to change details pertaining to the Location of the event.
      3. The user may select to change details pertaining to the Time of the event.
      4. ~~The user may select to change details pertaining to the Alarm of the event.~~
      5. The user may select to change details pertaining to the included Notes of the event.
   7. The system will identify but allow for conflicts of events.
      1. The system shall allow the user to choose if the conflict is acceptable; by selecting “Yes” indicating that the user understands this event is duplicated but wishes to continue.
      2. The system shall allow the user to choose if the conflict is non-acceptable; by selecting “No” indicating that the user understands this event is duplicated but doesn’t wish to continue.
   8. The system will display a predetermined interactive button on the menu where the user may change inputted details.
      1. The user may select the interactive button displaying “Save”, to save the event as well as adding the current event and its changes to the calendar.
      2. The user may select the interactive button displaying “Cancel”, to exit the event as well as deleting the current event and its changes to the calendar.
   9. The system shall return the user to calendar display.
      1. The system shall reveal all identified changes to the calendar.
         1. The system will add any new events to the selected date, indicating the new changes the user implemented.
         2. The system will delete any new events to the selected date, indicating the new changes the user implemented.
4. View an event functional requirement
   1. The simple calendar system display events that have been placed on the user calendar.
   2. The user will select an event.
   3. The simple calendar system shall display the event that the user selected.
   4. The simple calendar system shall have an exit button to allow for the user to exit the event view.
   5. The user shall click on the exit button and the simple calendar system will return the user to main calendar view.
5. The system shall allow a user to view **his/her** monthly based event list.
   1. The system shall display events to the user.
   2. The user shall select “Event menu” within the event display.
   3. The system shall display the user-based options of the event menu.
   4. The user shall select “Filter” in the event menu.
   5. The system shall display the filter options.
      1. The system shall filter based on day, month, year, and keyword.
   6. The user shall select “Monthly” in the event menu.
   7. The system shall filter the events by month of the current year.
   8. The system shall update the list of events.
   9. The system shall return to the updated filtered calendar.
6. The system shall allow a manager to coordinate a meeting for his/her teammates.
   1. The system shall display a new team event button to the manager
   2. The manager shall select “New Team Event”.
   3. The system shall display a form containing fields for preferred meeting date, meeting duration, meeting members, and an option to allow outside of business hours (NF1).
      1. The system shall retrieve a list of teammates associated with the given manager from the database.
         1. If no teammates are found, the system shall display an error and return to the calendar home screen.
         2. If one or more teammates are found, the system shall display them in a selectable list for inclusion in the event.
   4. The manager shall select “Next” after completing all form fields.
      1. If the “Next” option is selected without completing all forms, an error message shall display stating that each field in the form is required.
   5. The system shall retrieve all non-past events for each teammate and manager.
      1. The system shall sort the list of conflicting events by date-time
   6. The system shall compare the list of events to create a list of possible time slots that the team could meet.
      1. If no such time slots exist, the system shall display an error message with options to return either to the calendar home screen or return to the “New Team Event” screen.
      2. If one or more time slots exist, the system shall format the slots in list form, sorted in ascending date-time.
   7. The system shall display a selectable list of available slots along with a confirmation button to the manager.
      1. If no slot is selected, the system shall display an error message with a button to return to 1.7
   8. The system shall use the selected time, duration, and the Ids of teammates/managers to push the meeting event to each of their calendars.
7. Extra service manager can cancel meeting
   1. The simple calendar system shall display a cancel meetings option on manager calendar only.
   2. The manager shall select the cancel meeting option.
   3. The simple calendar system shall display a list of meetings that the manager created.
   4. The Manager shall select the meeting they wish to cancel.
   5. The simple calendar system shall display a warning message “you are about to delete this meeting do you wish to continue”
   6. If the manager clicks yes to continue the simple calendar system shall delete the meeting event and return the manager to the main calendar of events.
   7. If the manager clicks no the simple calendar system shall return the manager to step 8.3

Non-Functional Requirements:

1. The calendar format shall be separated by year, then by month, then by day. The calendar format shall start each week on Sunday and end each week on Saturday. The calendar will leave days null if the month does not end on a Saturday.
2. The system shall only find possible available time slots within acceptable business hours (7AM – 8PM) without manager override.