# Project Name

***Student Schedule Manager (version 1.0)***

# Project Sponsor

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# Business Objective

Scott wants a place for himself and his classmates to go for a few minutes when they want to spend their valuable time planning their schedule to be successful for the next week, semester, and beyond.

# Vision Statement

“Your time is valuable. We’ll help you protect it.”

“We're not here to remind you. We're here for when you need help remembering.”

# Motivation

Students often have a difficult time managing their school, work, and free time schedules. They want a tool to help them architect and track their weekly and semesterly schedule and then “make visible” their reserved work and class time and their free time to help them schedule and plan to be successful students during the week, the semester, and beyond.

* When I finish a week, month, or semester, I want to be able to quickly review the work I did including the tasks I have completed
* This is not a calendar application. It’s a focus time scheduling tool.
* This is not a connection application. This is a tool that you use to architect your time. (Like a calculator is a tool to help you do addition).
* There are no pop-up reminders or notifications, but you can always come back when you need help remembering what you need to do next.
* Students shall feel rewarded and satisfied for following the process. It should feel satisfying to check off a day or a task.
* Absolutely NO nagging or bullying. The user shall appreciate their time with this application and ideally look forward to it.

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# Major Quality Attributes

1. Usability – The application should be user-friendly and easy-to-learn.
2. Portability – The application should be accessible by anyone who wants to use it on any platform.
3. Efficiency – The application should be lightweight and contain only the most necessary information and functions.
4. Maintainability – maintenance should be cost-effective and easy.
5. Security – The application should protect users’ information from external tampering.

# User Experience Attributes

1. Rewarding – The application should reward the user for accomplishing a job well done.
2. Satisfying – The application should be satisfying to use. Checking off that a task is done should feel like tidying up the last toy in the box.
3. Educational – The application can help users understand the process and importance of time estimation while giving them practice
4. Comfortable – The application feels comfortable and calming to open.

# User Roles

(UR) Unregistered user, (U) Student, (EE) External Entity

# User Stories

## ALL-001-NavigateToHomepage

As any User, I can navigate to the homepage of the application

## UR-002-RegisterForAccount

As an Unregistered User, I can click on a link on the homepage and choose to register for an account

## U-003-RequestPasswordReset

As a student who has forgotten their password, I can clink on a link on the homepage and choose to reset my password

## U-004-LoginToAccount

As a student, I can login to my account with my username and password

## U-005-ViewDashboardScreen

As a student, after I login I can view the Dashboard screen

## U-006-ViewWeeklyTaskListScreen

As a student, I can choose to view the Weekly Task List screen

## U-007-ViewWeeklyCalendarScreen

As a student, I can choose to view the Weekly Calendar screen

## U-008-ViewSemesterCalendarScreenScreen

As a student, I can choose to view the Semester Calendar screen

## U-009-ViewOldTaskLists

As a student, I can go back and look at old task lists that have not expired

## U-010-ViewPastWeeklyCalendars

As a student, I can go back and look at past weekly calendars that have not expired

## U-011-ViewSettingsScreen

As a student, I can view the Settings screen

## U-012-ViewAnalyticsScreen

As a student, I can view the Analytics screen

## U-013-AddNewSemesterCalendar

As a student, I can create a new semester calendar

## U-014-ArchivePastSemesterCalendar

As a student, I can choose to archive past semester calendars that have not expired

## U-015-AddNewTaskGrouping

As a student, I can create a new task grouping category

## U-016-AddNewTaskToTaskList

As a student, I can add a new task to the task list in the appropriate grouping. Optionally, I can provide an estimate of how much time I expect the task to take.

## U-017-PlaceTaskOnWeeklyCalendar

As a student, I have the option to place the task work time visually on my weekly calendar

## U-018-CheckTaskAsComplete

As a student, I can check a task off as completed. Optionally, I can provide an estimate of how much time I think the task took.

## U-019-DeleteTaskFromTaskList

As a student, I can delete a task from the task list

## U-020-StartNewWeeklyTaskList

As a student, I can select to start a new weekly task list. Extension, if there are any incomplete items from my last weekly calendar I will be asked if I want to bring them over.

## U-021-ViewFutureTaskLists

As a student, I can select to view future weekly task lists for the upcoming weeks

## U-022-ViewPastTaskLists

As a student, I can select to view future weekly task lists for the upcoming weeks

## U-023-ExportPastTaskLists

As a student, I can select to export past task lists in PDF format

## U-024-HideCompletedTasks

As a student, I can choose to temporarily hide completed tasks from the task list

## U-025-SplitTaskList

As a student, I can choose to split my weekly task list which sloughs off any completed tasks and leaves me with a clean list of tasks I still need to complete

## U-026-TaskListZoomOut

As a student, I can choose to zoom out on the task list and view a higher, abstract stoplight view

## U-027-TaskListZoomIn

As a student, I can choose to zoom in and view the task list at the highest informational level

## U-028-PrioritizeWeeklyTasks

As a student, I can choose to prioritize weekly tasks which will allow me to quickly rank any incomplete tasks in order of my chosen priority

## U-029-AddWorkScheduleToWeeklyCalendar

As a student, I can add my weekly work schedule to the weekly calendar

Optional: As a student, I can add a monthly/semesterly/indefinite work schedule to the weekly calendar

## U-030-AddCourseScheduleToWeeklyCalendar

As a student, I can add my course schedule for the semester, and it will be added to the multi-month and the weekly calendar

## U-031-ShareAbstractSchedule

As a student, I can choose to share an abstract representation of my schedule with others

## U-032-RemoveTaskFromCalendar

As a student, I can select a task on the weekly calendar and choose to remove it from the calendar without it being removed from the task list

## U-033-ExportCalendarForOutsideUse

As a student, I can choose to export my weekly calendar in a commonly used format (Google, Outlook, iCal) to add to my personal calendar

## U-034-AddDailyInfoToMultiMonthCalendar

As a student, I can add high level daily information to the multi-month calendar such as days off, days traveling, and birthdays

# UI Mock-Ups

## Semester Calendar

* High level, top-down view of your next 15 weeks (or quarter, or pre-defined amount of time)
* The calendar is timeboxed (finite scroll), allowing you a static view of what your next weeks look like
* You check off each day when it is done to give you the satisfaction of completing that day
* Checking off each day is rewarding and satisfying. If you miss checking off a few days, you can go back and check off the days you have completed manually or choose to auto-fill.
* The final day on the calendar is a visible time goal for people to be striving for. You "accumulate successfully completed days"
* You can mark the first day of class, birthdays, no class days, travel, etc…

A picture containing chart

Description automatically generated

## Weekly Calendar

* This is:
  1. A top-down view of your next 7 days
  2. A static weekly schedule of work and classes
  3. A place for you to “make visible” your work, school, and free time for the coming week (a time anchor)
  4. A place to schedule specific time to work on tasks
* Automatically reserve your work and school time on your weekly calendar
* Reminder of what you have scheduled to do during the week and highlight the non-reserved time that you have
* Can add time to work on tasks during any time that is not already reserved

Diagram

Description automatically generated

## Weekly Task List

* You create a new task list at the beginning of each week
* The list shows the specific tasks that need to be worked on that week
* You can add due dates to tasks and you are encouraged to schedule specific time during the week to work on the tasks (“A to-do list without to-do times rarely gets completed”).
* Tasks can be added and marked complete. Completed tasks should NOT be removed from the list since they act as a visual reminder of completed work (unless you choose to do so).
* Checking off tasks should be satisfying and rewarding to do.
* If there are any incomplete tasks from the previous week, ask nicely if they want to review the unchecked tasks from the week before, and if so, allow them to easily transfer them to the next week.

A picture containing diagram

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## Abstract Weekly Schedule

* Like the “Wordle” share – a high level abstract view of the weekly schedule that the user can decide to share via email or social media. Blocks represent major blocks of your reserved time with no additional information
* Let others know when you are “not free”

Schematic

Description automatically generated

Image Source: <https://soyacincau.com/2022/01/14/wordle-seen-those-weird-squares-on-social-media-heres-why/>

# Special Issues or Considerations

* Graduate independent computing project. To be completed before the end of the Fall 2022 semester.

# Priority List of Functionalities

* **Highest**:
  + **Main**:
    - ALL-001-NavigateToHomepage
    - U-005-ViewDashboardScreen
  + **Account/Security:**
    - UR-002-RegisterForAccount
    - U-004-LoginToAccount
  + **Weekly Task List:**
    - U-006-ViewWeeklyTaskListScreen
    - U-015-AddNewTaskGrouping
    - U-016-AddNewTaskToTaskList
    - U-018-CheckTaskAsComplete
    - U-019-DeleteTaskFromTaskList
    - U-020-StartNewWeeklyTaskList
  + **Weekly Calendar:**
    - U-007-ViewWeeklyCalendarScreen
    - U-029-AddWorkScheduleToWeeklyCalendar
    - U-030-AddCourseScheduleToWeeklyCalendar
    - U-032-RemoveTaskFromCalendar
  + **Semester Calendar:**
    - U-008-ViewSemesterCalendarScreenScreen
    - U-013-AddNewSemesterCalendar
    - U-034-AddDailyInfoToMultiMonthCalendar
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  + **Weekly Task List**:
    - U-009-ViewOldTaskLists
    - U-021-ViewFutureTaskLists
    - U-022-ViewPastTaskLists
    - U-023-ExportPastTaskLists
    - U-024-HideCompletedTasks
    - U-025-SplitTaskList
    - U-028-PrioritizeWeeklyTasks
  + **Weekly Calendar:**
    - U-010-ViewPastWeeklyCalendars
    - U-017-PlaceTaskOnWeeklyCalendar
    - U-033-ExportCalendarForOutsideUse
  + **Semester Calendar:**
    - U-014-ArchivePastSemesterCalendar
  + **Account/Security:**
    - U-003-RequestPasswordReset
* **Medium**:
  + **Main**:
    - U-011-ViewSettingsScreen
    - U-012-ViewAnalyticsScreen
  + **Weekly Task List**:
    - U-026-TaskListZoomOut
    - U-027-TaskListZoomIn
  + **Weekly Calendar**:
    - U-031-ShareAbstractSchedule
* **Low**:

# Functionalities - Primary

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# Functionalities - Secondary

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