

EECS2311 - Software development project

Iteration 0

Automatic Workload planner (ScheduleLynx)

Group 5 Section Z

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Team members

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Vision Statement

Summary:

The ScheduleLynx app is a schedule and workload manager that helps users manage their academic, professional and personal responsibilities. By using task details, deadlines, available time, and events, the system will generate a rule based schedule that will improve time management without constant manual planning. This app can be used by anyone, however it is designed especially for students who struggle with organizing their workload and balancing school, work, and personal life. Many students use a calendar or planner or even just reminders on their phones, however these require time to be planned out and updated. This system removes that burden by automating the scheduling based on the user's inputs.

Users will input assignments, exams, homework, and any other tasks with the key information needed such as deadlines and estimated time to complete. They also input any fixed commitments such as scheduled classes, tutorials, labs, work shifts, outings etc. Users can also add recurring events easily by selecting when in a week that event occurs and how often to repeat it. That way they will not need to add each class in the semester separately. After adding all events and tasks the system can use their available time to distribute tasks evenly to ensure deadlines are met without overwhelming the user.

This system will be very beneficial to students managing several courses, part time jobs, and extracurriculars. By reducing the time needed for manual scheduling, this planner will allow students more time to focus on completing their work instead of organizing it themselves.

Project Value:

This project provides value to users by reducing stress related to time management. It helps users avoid procrastination by balancing the workload evenly and helps users use their time more efficiently. It will also automatically adapt the schedule based on changes in deadlines or other events. It is different from traditional planners or reminder apps by actively planning for the user instead of the user planning everything themselves.

Success Criteria:

The goals of this project are:

- Users can easily enter different types of tasks based on the task type (ex. Classes, assignments, tests, shifts). There should be a separate way to add concrete events such as classes and shifts versus tasks that need to be completed before a deadline, like studying for a test or completing an assignment.
- Users can easily add recurring tasks by selecting when it occurs and how often to repeat the task. (every day, every week, every month, etc.)
- The system automatically generates a clear and rule based schedule.
- Tasks are logically distributed over time without overloading a single day.
- Users can modify already existing tasks, and the schedule will update accordingly.

Big User Stories

- 1) Task and schedule management:
 - As a student I want to add tasks with deadlines(such as assignments and studying for exams) so the system can generate my workload
 - *Priority:* High
 - *Time cost:* 4-6 days
- 2) Adding recurring events:
 - As a student I want to add recurring events such as classes, labs, tutorials, shifts, or extracurricular activities.
 - *Priority:* High
 - *Time cost:* 3-5 days
- 3) Autogenerating a rule based schedule (time-blocking):
 - As a student I want the app to automatically generate a realistic weekly schedule by time-blocking my tasks into my available free time, so I don't have to manually plan everything.
 - *Priority:* High
 - *Time cost:* 6-9 days
- 4) Editing tasks + auto-rescheduling (dynamic updates):
 - As a student I want to edit existing tasks/events (deadline, duration, priority, availability) and have the schedule automatically update and re-balance, so my plan stays realistic when things change.
 - *Priority:* High
 - *Time cost:* 4-6 days
- 5) Schedule feasibility and feedback
 - As a student I want the system to detect when my workload cannot fit into my available time before deadlines and clearly warn me.
 - *Priority:* Medium
 - *Time cost:* 2-4 days

Iteration 1 detailed user stories

User Story 1: Edit and Delete Tasks

As a student, I want to edit or delete an existing task if its details change, so that my schedule stays accurate without re-entering everything. When a task is modified or removed, the system should immediately reflect the change in the task list.

Priority: High

Time Cost: 2 days

User Story 2: View a Daily Schedule Overview

As a student, I want to view my schedule for a selected day, showing all fixed events and tasks planned for that day, so that I can clearly see how my time is allocated. The system should display the events in chronological order.

Priority: Medium

Time Cost: 3 days

User Story 3: Import fixed events from a file

I'm a student, not a data entry worker. I'd like to just give the app my schedule from a simple file format and have it automatically block those times into the system.

Priority: Low

Time Cost: 5 days

User Story 4: Define availability and fixed events

As a student, I want to define my weekly availability and fixed events so that the planner only schedules work during realistic free time.

Priority: High

Time Cost: 4-6 days

User Story 5: Adding a task

As a student I want to add a new task with a deadline and estimated effort so that it can be included in the schedule

Priority: High

Time Cost: 3-4 days

User Story 6: Generate a workload plan

As a student, I want the system to generate a workload plan by time blocking tasks into my free time before deadlines so that I know what to work on each day

Priority: High

Time Cost: 6-8 days