Screen Sketches

Project Name: WorkSync

Group: 3_Rasel_2

Team Names: Nathan Willimack, Miray Hirabayashi,
Srdan Kopunovic, Chai Chen

Purpose of WorkSync

Our app is designed to help small businesses have a unified platform, which consists of multiple functionalities like tracking employee work hours, having a centralized project and employee database, while also providing some basic analytical functionality (tracking sales per year/month/week). The app is also intended to have basic functionality like a task manager to assist with project tracking.

This kind of an application is useful for businesses to stay organized and increase efficiency, while at the same time providing a versatile platform for a development team to work on and the ability to easily scale it in the future.

Actors

1. **Employees**
   • View project details they’re assigned to
   • View and complete tasks
   • Clock in/out for shift tracking
   • View schedule

2. **Managers**
   • Create new projects
   • Assign employees to projects
   • Set due dates and edit project details
   • Create tasks within a project and assign them
   • View team productivity

3. **Executives**
   • View company-wide dashboard
   • Analyze project performance
   • Search/filter through all projects
   • Generate reports on team efficiency

4. **Owners**
   • Manage company profile and billing
   • Add or remove managers
   • Set company policies (e.g., working hours, roles)
   • View all users and project activity

Non-Functional Requirements

- The system will support real time collaboration with no overlapping edits on a single project.
- Any action (such as task creation or project edit) should reflect on user devices within 1 second.
- App will support concurrent users with smooth performance.
- All user interactions (UI components) to respond within 0.5 seconds.
- The app must function across Android versions 10 and above and support future feature expansion.

Tables and Fields

Company:

- **Data:**
  - -id
  - -Name
  - -users
  - -projects
- **Relationships:**
  - -OneToMany User
  - -OneToMany Project

Tables and Relationships

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  - **-OneToMany Project**

User:

- **Data:**
  - **-id**
  - **-first name**
  - **-last name**
  - **-email**
  - **-password**
  - **-role**
  - **-company**
  - **-timecards**
  - **-projects**
- **Relationships:**
  - **-ManyToOne Company**
  - **-ManyToMany Project**
  - **-OneToMany Timecard**

Timecard:

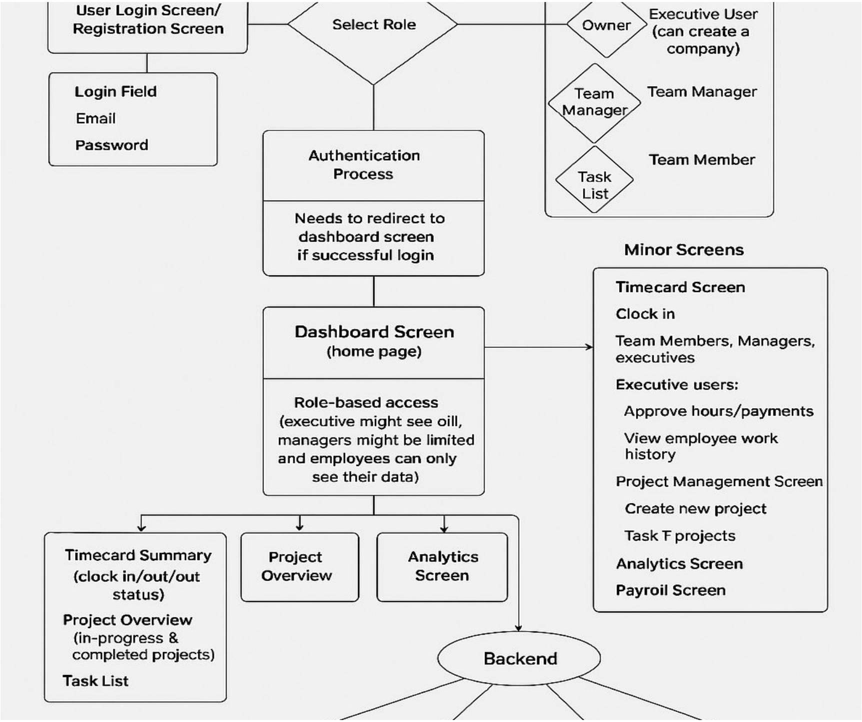
- **Data:**
  - **-id**
  - **-user_id**
  - **-clockInDateAndTime**
  - **-clockOutDateAndTime**
  - **-hours worked**
  - **-isClockedIn**
- **Relationships:**
  - **-ManyToOne User**

Tables and Relationships

Project:

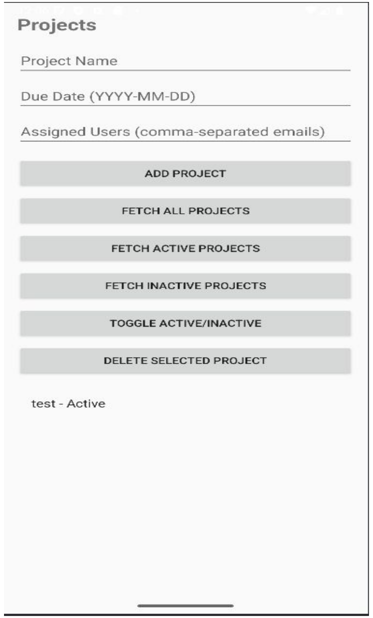
- **Data:**
  - **-id**
  - **-name**
  - **-description**
  - **-open date**
  - **-close date**
  - **-isActive**
  - **-users**
- **Relationships:**
  - **-ManyToMany User**
  - **-ManyToOne Company**

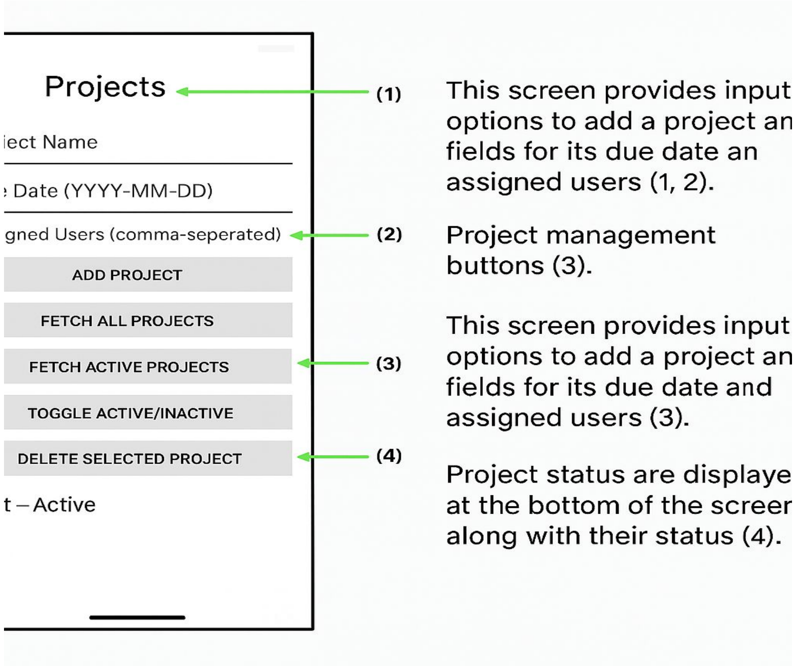
Screen Flow Diagram



Project Page (Nathan Willimack)

The projects page displays as below:

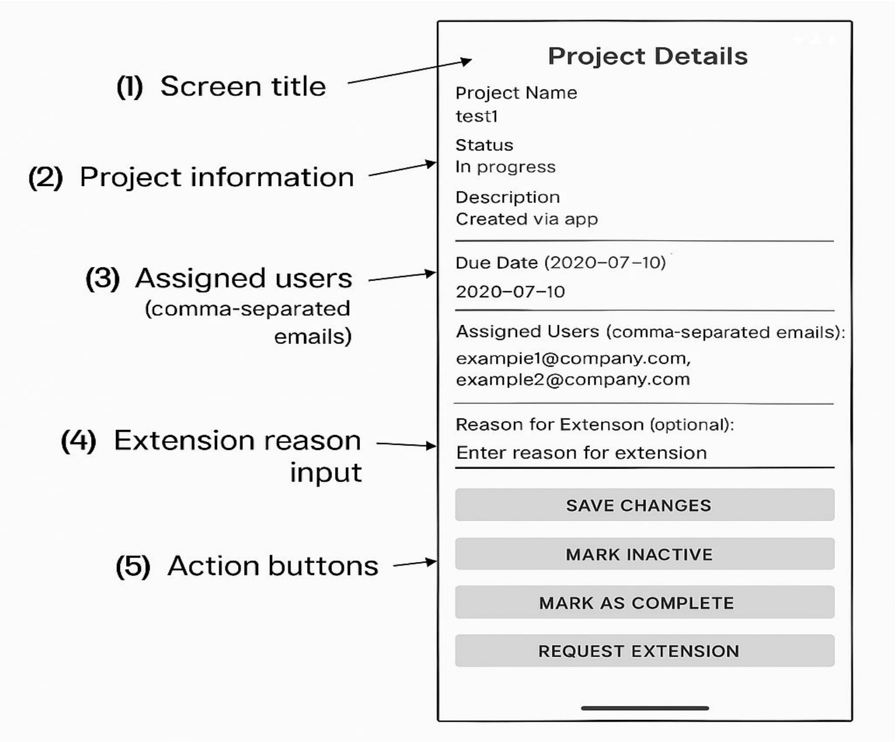




This screen allows users to add and manage projects within the application.

The top of the screen displays the title “Projects” (1). Below it are input fields for the project name, due date, and assigned users (2). These fields allow users to specify essential details before adding a project. The center of the screen contains buttons (3) for managing project actions: adding a new project, fetching all or specific types of projects (active/inactive), toggling project status, and deleting a selected project. At the bottom (4), the screen displays existing projects along with their active or inactive status to give the user immediate feedback on their entries.

Project Details Page (Nathan Willimack)

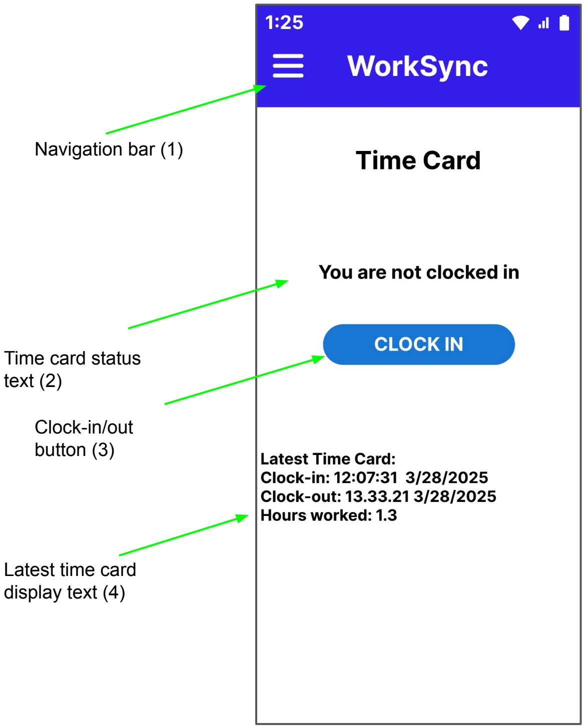


This screen displays detailed information about a selected project.

At the top, the screen title **"Project Details"** is shown (1). Below the title, the **project information section** (2) displays key details such as the project name, status, description, and due date. The **assigned users section** (3) shows a list of team members associated with the project, entered as comma-separated emails. Users can optionally enter a reason for requesting a deadline extension in the **extension reason input** field (4). At the bottom, there are **action buttons** (5) that allow users to save changes, mark the project as inactive or complete, or request an extension.

This screen enables users to manage individual project records and update relevant attributes.

Clock-in/out Page (Miray Hirabayashi)



This screen allows user to clock-in/out for their time card.

Through the navigation bar shortcut (1), the user can access the navigation bar and switch to other pages. The time card status (2) text briefly tells the user that they are currently clocked in or not. Users can clock-in/out by using the clock-in/out button (3). Latest time card text (4) displays the user’s latest complete time card. This text gives information about when they clocked-in and clocked-out and how many hours they worked.

Company Roster Page (Miray Hirabayashi)

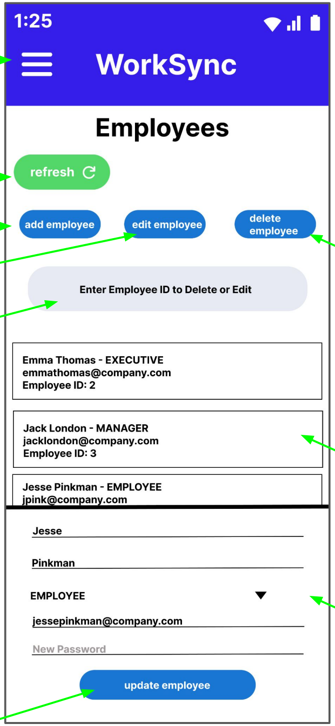
Navigation bar (1)

Refresh button (2)

Add employee button (3)

Edit employee button (4)

Employee ID text input (6)



Update employee button (9)

Delete employee button (5)

Employee Listview (7)

Employee edit/add panel (8)

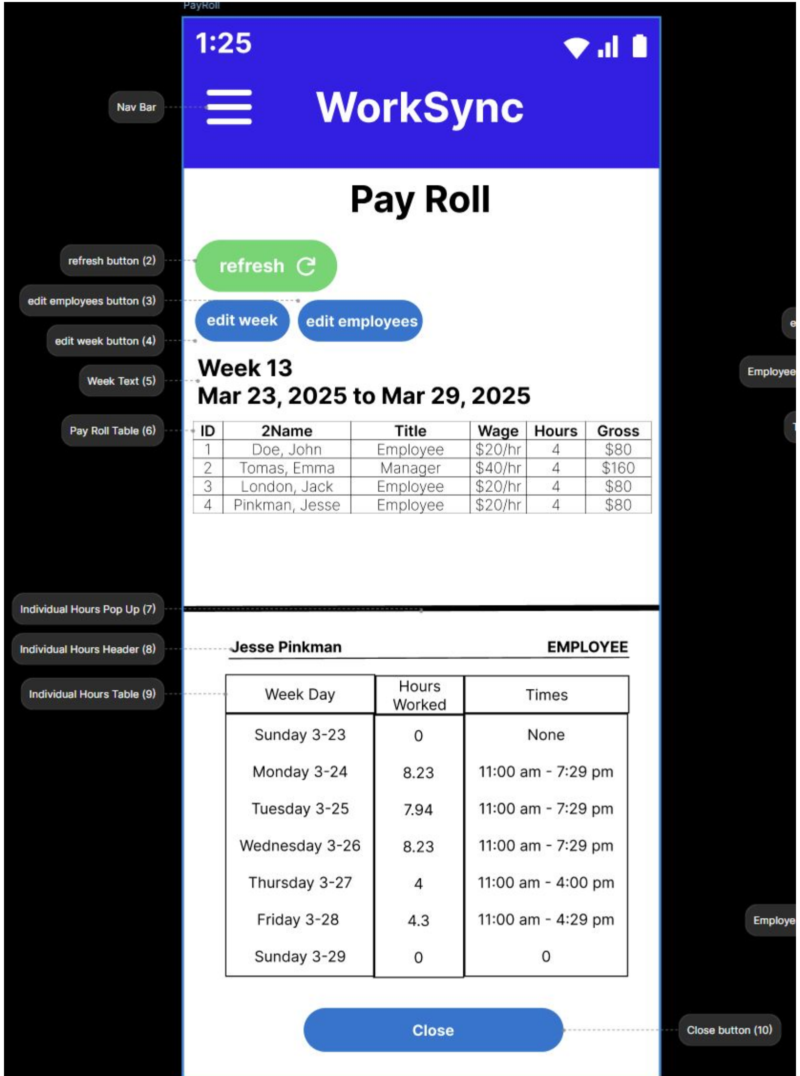
This screen displays the company's current roster and allows users with executive and owner roles to edit the information of company's current employees and add new employees to the company.

Through the navigation bar shortcut (1), the user can access the navigation bar and switch to other pages. The refresh button (2) refreshes the employee list display. The add employee button (3) allows the user to add employees to the company. The edit employee button (4) allows the user to edit the information of current employees of the company. The delete employee button (5) allows the user to delete an existing employee. The employee ID text input (6) allows the user to choose which employee to edit or delete by inputting the employee ID. The employee listview (7) displays the current roster of employees and their role, e-mail address, and employee id. The employee edit/add panel (8) allows the user to edit the employees' information or delete an employee. The update employee button allows user to update the employee's information after editing.

Payroll (Cai Chen)

This screen shows the payroll of all the employees in a company.

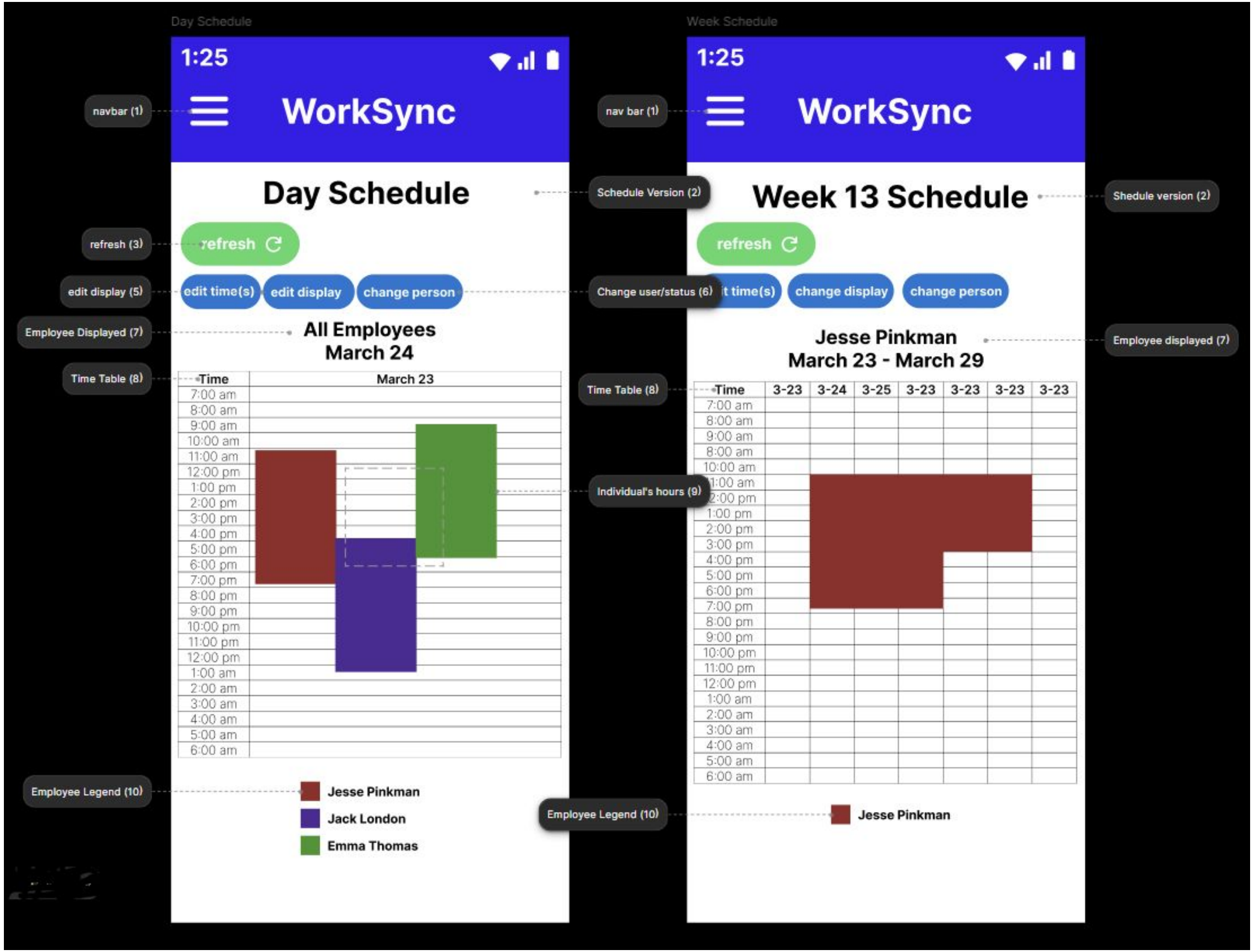
The user can access other pages through the navbar (1). The refresh button (2) updates info, for example if John Doe clocks out and the refresh button is clicked, then the Payroll Table (6) would be updated. The edit employees button (3) brings you to the employees page for ease of access. The edit week (4) button allows the user to go in the past/future weeks in the year to show different info for the week text (5) and payroll table (6), both depending on the week chosen. The week text (5) and payroll table (6) both show information about the current week displayed and the information displayed for each employee. The pop up (7) activates when the user clicks on a person's name in the payroll table. It shows more specific information by displaying another table (8 & 9) that shows the information about each specific day. The close button (10) close the pop up



Weekly/Daily Schedule (Cai Chen)

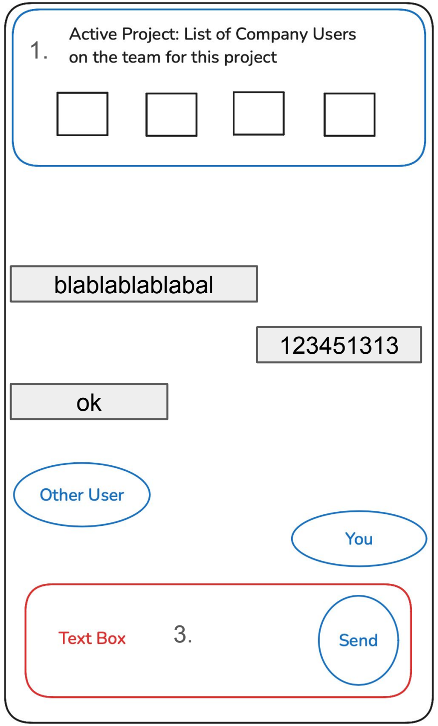
This screen shows 2 versions of the same schedule screen. One for day view and one for week view.

The first version is by day. You can refresh the page (3) to see changes to the daily schedule. You can also edit the day (4), display (5) which changes to the weekly display, and person (6) which changes the people displayed on the time table (8). There is a legend (10) at the bottom that displays which color matches with which employee. The weekly schedule is similar, although some text is changed as it only displays one user's weekly schedule (7 & 8).



Active Project Chat(Srdan Kopunovic)

1. List with users that are part of the current project. Button below to select a chat with a specific user or the general project chat.



2. Current and past chat history with a specific user or a group related to a project.

3. Text box, used to input messages to be sent.

Analytics(Srdan Kopunovic)

1. Taskbar with options to select project to view, data to view, overall company data to view.

2. Display project data, including a chart for revenue, sales, etc.

3. Filter data by week/month/year