

## 1. Actors:

- **Employee**
  - Can view tasks, manage time logs, submit task completions, view personal information, and request leave.
  - View completing assigned tasks and submitting time logs.
- **Employer**
  - Can manage tasks, projects, employee information, time logs, salaries, and perform performance evaluations.
  - Managing the organization, overseeing both employee management and project progression.

## 2. Non-functional Requirements:

- **Security:**
  - Data Protection: Sensitive data (e.g., employee information, salaries, tax details) must be encrypted.
  - Role-based Access Control: Employers have higher access privileges compared to employees.
- **Performance:**
  - Fast Task Loading: Tasks and projects should load quickly for both employers and employees. Check in/Check out are main functions, and will likely be 90% of an employee's interaction with the app, these must be very smooth.
  - Real-time Updates: Task completions, time logs, and project updates should reflect in real-time.
- **Usability:**
  - Easy Navigation: Both employers and employees need intuitive interfaces with easy access to all relevant tools (e.g., salary details, task reviews, performance evaluations).

- Consistency: The layout and design should be consistent across employer and employee portals to maintain a cohesive experience.
- **Scalability:**
  - Supports Growth: The system should handle an increasing number of employees, projects, and tasks as the company scales.
- **Availability:**
  - High Uptime: The system should maintain 99.9% uptime to ensure it is accessible at all times.
- **Compliance:**
  - Legal Compliance: The system must adhere to labor laws, data privacy regulations (e.g., GDPR), and salary management rules.

### 3. Tables and Fields:

#### 1. User

- user\_id (Primary key)
- user\_name
- password
- user\_type

#### 2. Employer Information Table

- employer\_id(Primary key)
- name
- contact\_information
- department

#### 3. Employees Information Table

- employee\_id (Primary Key)
- name
- contact\_information
- job\_title
- department
- date\_of\_hire
- supervisor

#### 4. Time Logs Table

- log\_id (Primary Key)
- employee\_id (Foreign Key, references Employee Information table)
- date
- clock\_in\_time
- clock\_out\_time
- total\_hours\_worked
- overtime\_hours (if applicable)

#### 5. Project Tables

- project\_id (Primary Key)
- project\_name
- description
- start\_date
- end\_date
- project\_manager
- status (e.g., In Progress, Completed, On Hold)

#### 6. Salary Section

- salary\_id (Primary Key)
- employee\_id (Foreign Key, references Employee Information table)
- base\_salary
- bonus
- deductions
- pay\_period (e.g., Monthly, Bi-weekly)
- total\_compensation

#### 7. Task Assignments

- task\_id (Primary Key)
- project\_id (Foreign Key, references Project Tables)

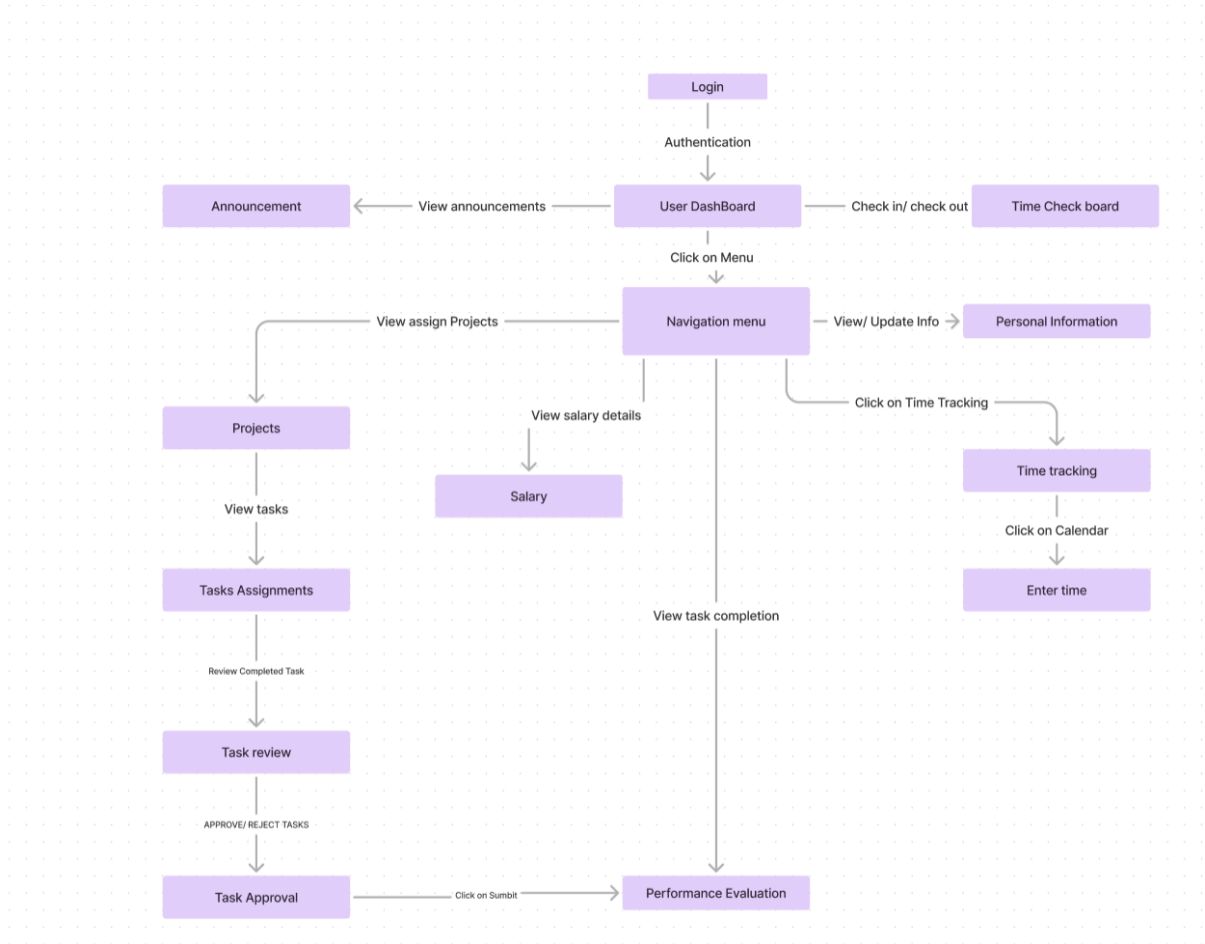
- employee\_id (Foreign Key, references Employee Information table)
- task\_description
- priority (e.g., High, Medium, Low)
- start\_date
- due\_date
- completion\_status (e.g., Not Started, In Progress, Completed)

## 8. Leave Requests

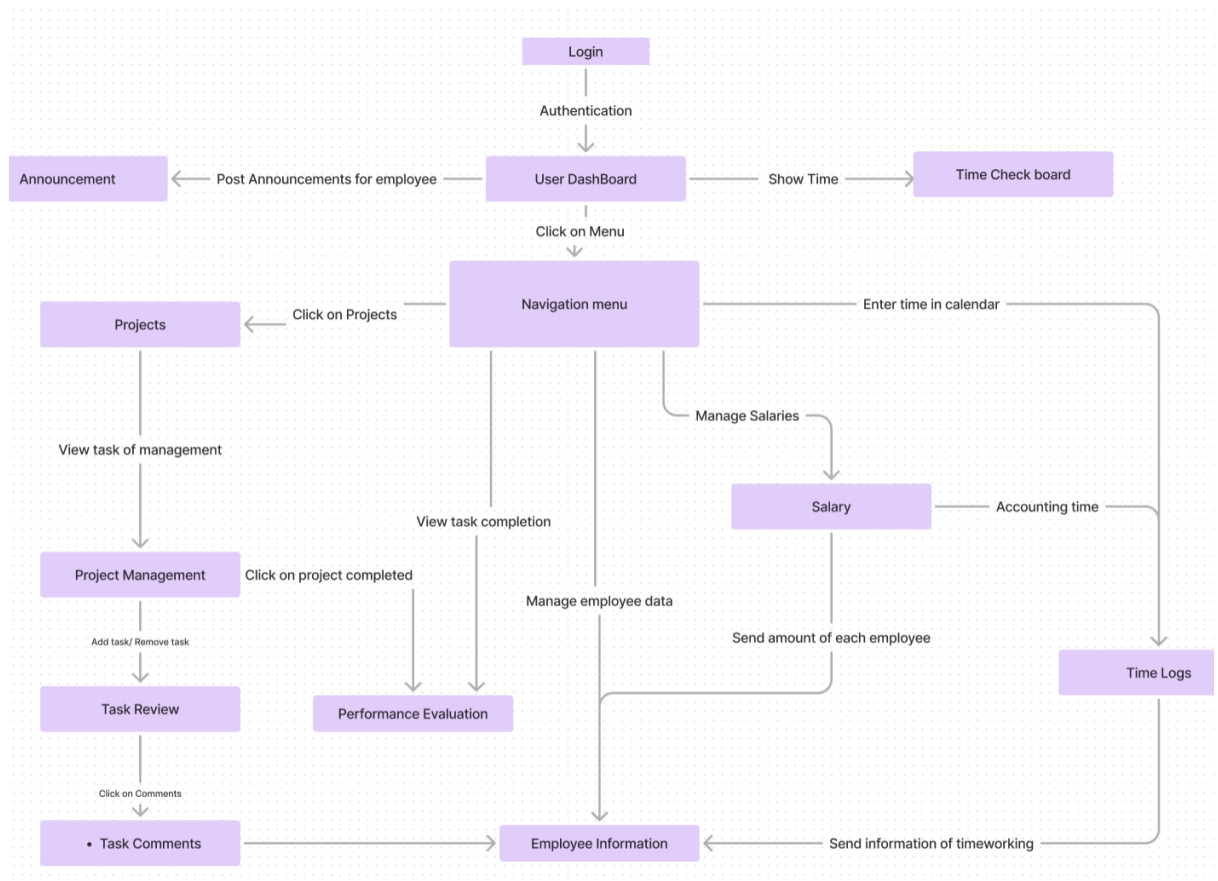
- leave\_id (Primary Key)
- employee\_id (Foreign Key, references Employee Information table)
- type\_of\_leave (e.g., Vacation, Sick, Personal)
- start\_date
- end\_date
- approval\_status
- remarks/notes

## 4. Screenflow Diagram

### 1. Employee's view:

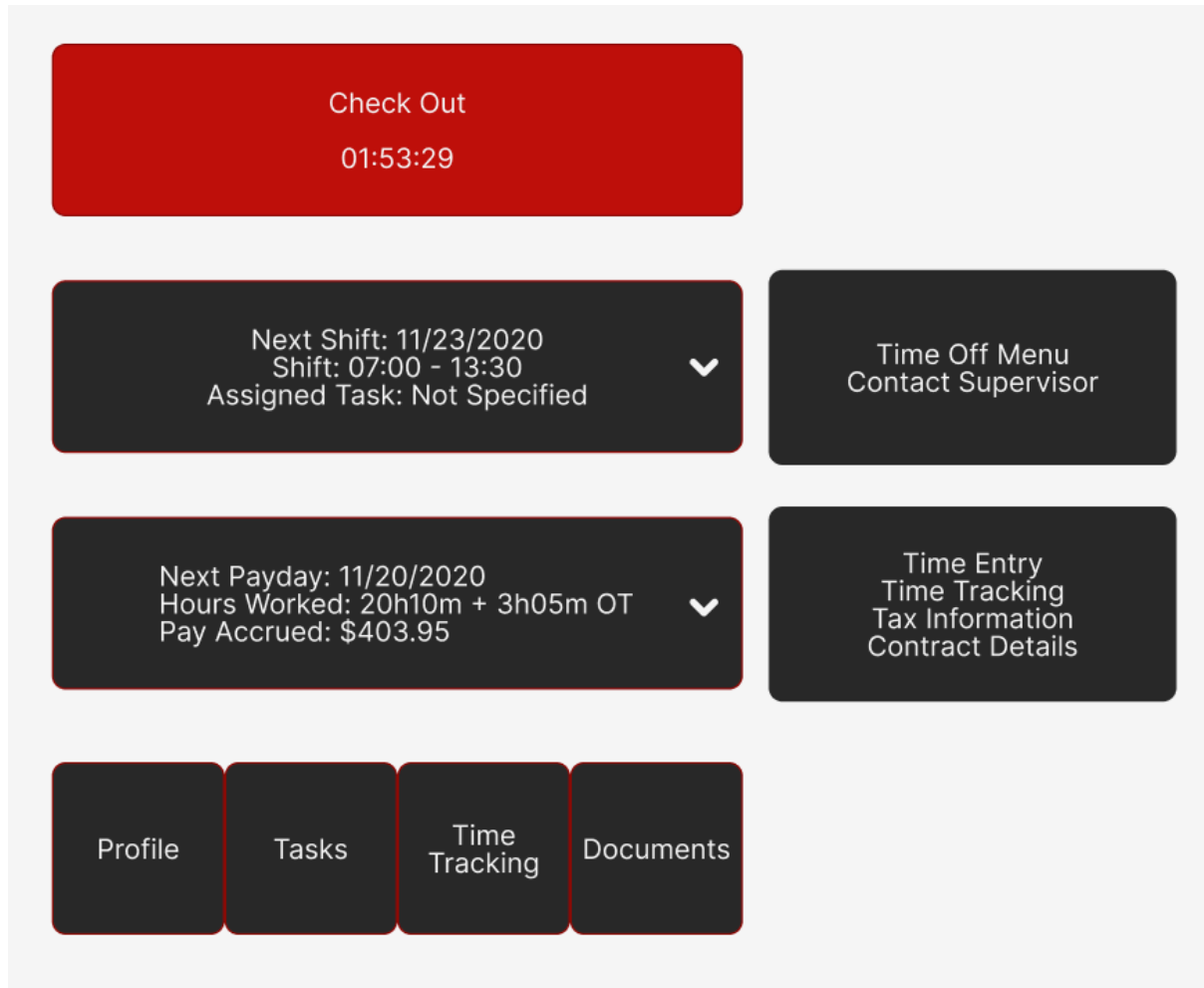


## 2. Employer's view:



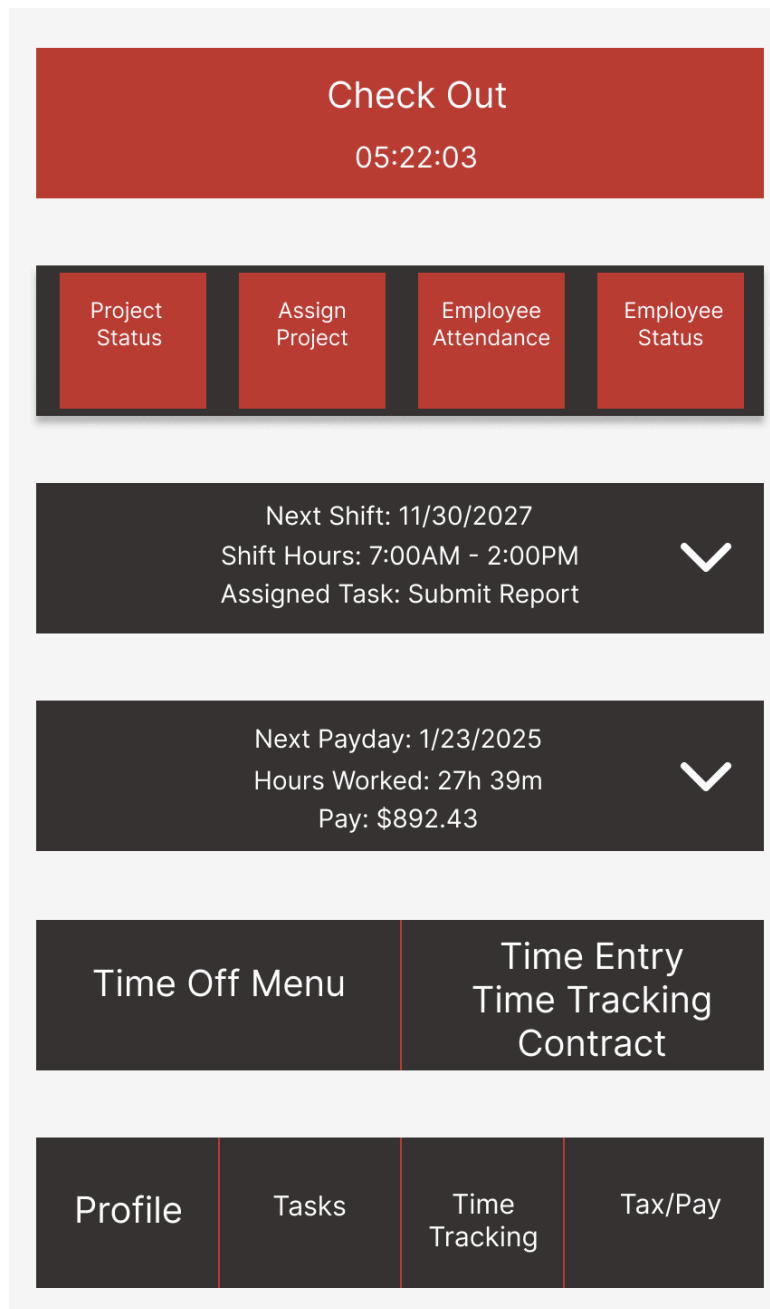
## 7. Screen Sketches

### Employee Home Screen (Ali Mannan)



- **Functionality:** Employees will spend most of their time with the app at this screen. Check in and check out being easily accessible is our top priority. Clear colors indicate whether the person is checked in or out. Simply clicking the button toggles the check state and starts logging the hours worked. This screen also offers a convenient jump pad to the all of the other features of the app, and offers ways of reminding the employee what they need to do. The employee can take action if they are unable to make their next shift, or if their time has been entered wrong. At the bottom we have the more situational buttons, such as looking at tax documents, or editing the employee profile.





## Employer Home Screen (Ethan Roepke)



**Functionality:** This is the main screen for the employer page, its quite similar ro employee page with check in/check out, their upcoming shifts, paydays, time off, time track and their tax/pay. On top of this employers are only allowed to use these 4 extra buttons. The project status will allow the employer to view all projects and see the status on it. The assign project will allow employers to create tasks for employees. The employee attendance lets the employer know whos currently working and when they clocked in and clocked out. The employee status will give the employer insight on who requested time off, their availability and more.

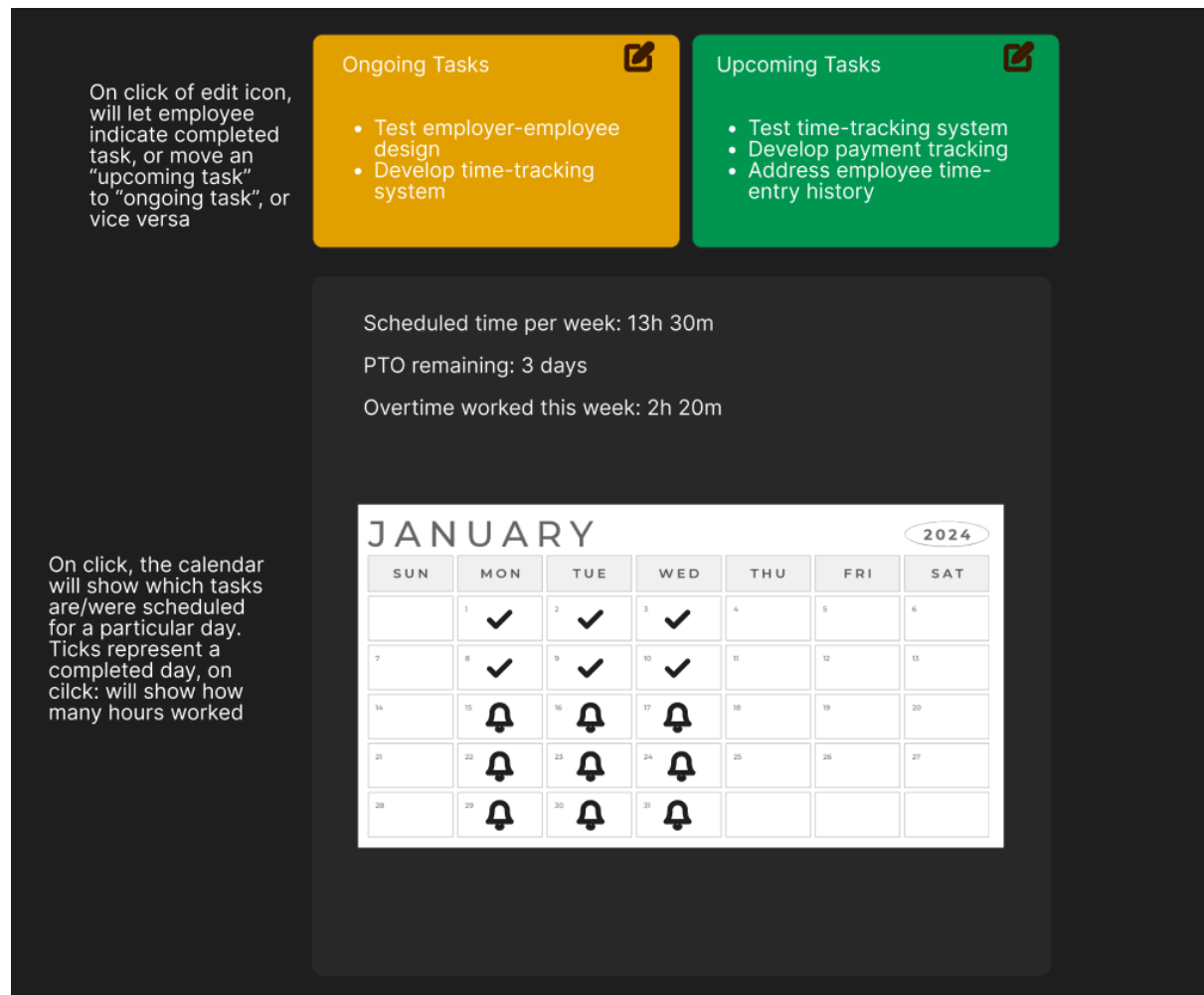


## Employer assign task to employee (Ethan Roepke)

+ Add Task		Filter tasks	
	Add new trainee to database	Low	
	Due	Associate	
	Pre-Boarding	Medium	
	Due	Associate	
	Submit report	High	
	Due	Associate	
	Presentation regarding sales	Low	
	Due	Associate	

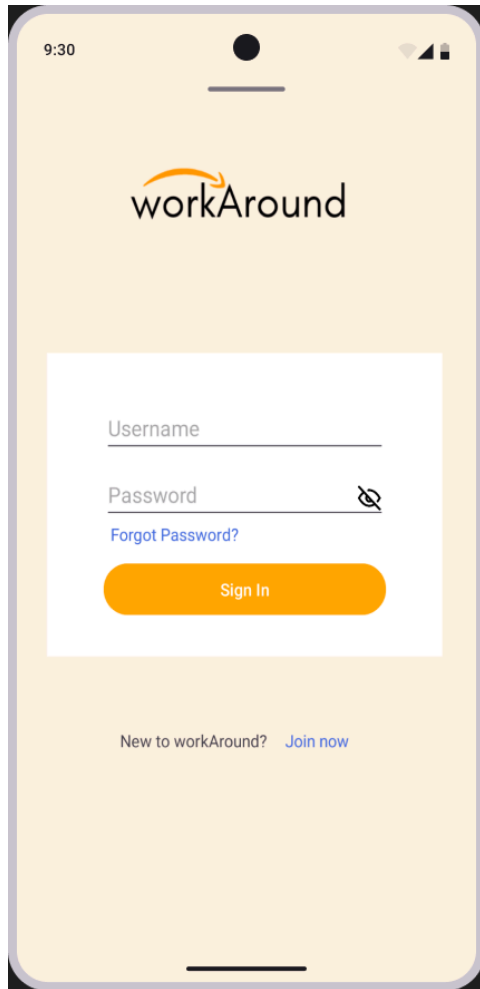
**Functionality:** This page allows the employer to assign new tasks to employees. They have the add task button and also a filter task to view by level of task or progress or by employee. The “! with circle” lets us know that it has not been started, the “- with circle” lets us know it has started. the “check mark with circle” lets us know it is completed. We have a progress bar that allows us to see how much has been completed. The top right of each task lets us know the severity of the task from low to high. Bottom left is due date and bottom right is the associates working on the task.

## Employee Shift Schedule Screen (Ali Mannan)



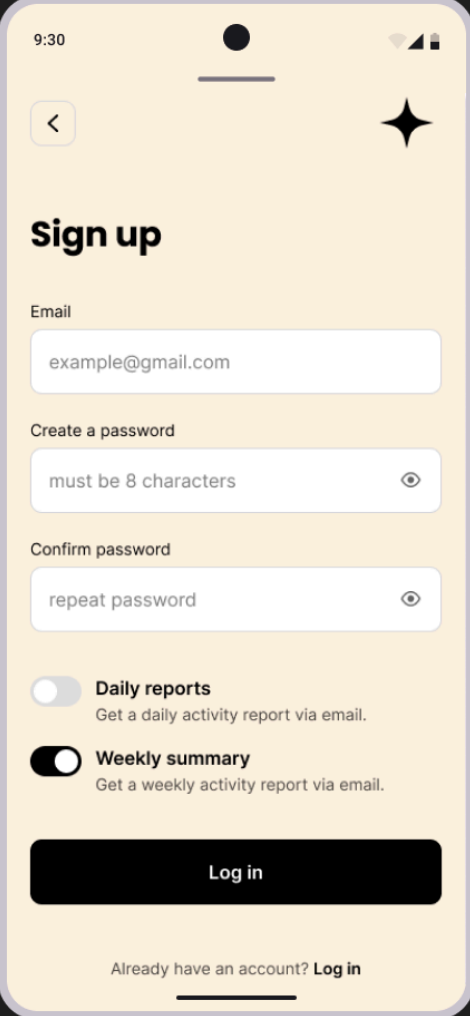
- **Functionality:** This screen is accessed from the taskbar on the employee homescreen. It is meant to provide clarity to the employee in case they are in doubt of what they should be doing. Additionally, they can check off tasks if their supervisors are not keeping track of team progress. There is also a calendar which serves to visualize the shifts they've put in, as well as offer insight on how many hours exactly the employee has worked, and what is coming up.

## Login Page (Mubassir Sudipto)



- **Functionality:** Employers and employees can safely log into the system using this page. It has spaces for the password and username and a submit button for requesting login. There might also be "Remember Me" options and a link to reset the password on the page in case you forget it. Security is of utmost importance here, as evidenced by safeguards like encrypted login credentials and defense against brute force attacks.

## Sign Up Page (Mubassir Sudipto)



A mobile app sign-up page mockup with a light orange background. At the top, the status bar shows the time 9:30, a black circle for the camera, and signal/battery icons. Below the status bar is a navigation bar with a back arrow on the left and a star icon on the right. The main heading 'Sign up' is in bold black text. The form includes an 'Email' field with the placeholder 'example@gmail.com'. Below it is a 'Create a password' section with a field containing 'must be 8 characters' and an eye icon. This is followed by a 'Confirm password' section with a field containing 'repeat password' and an eye icon. There are two toggle switches: 'Daily reports' (unchecked) with the subtext 'Get a daily activity report via email.', and 'Weekly summary' (checked) with the subtext 'Get a weekly activity report via email.'. A large black button with the text 'Log in' is positioned below the toggles. At the bottom, a link reads 'Already have an account? Log in'.

9:30

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### Sign up

Email

example@gmail.com

Create a password

must be 8 characters

Confirm password

repeat password

☐ **Daily reports**  
Get a daily activity report via email.

☒ **Weekly summary**  
Get a weekly activity report via email.

Log in

Already have an account? [Log in](#)

- **Functionality:** New users can register for an account on this page. Information like name, email address, password, and role (employee or employer) are requested. The form also has validation to guarantee secure passwords and avoid duplicate accounts. User data must be encrypted and securely stored, and the page must abide by data privacy laws.

## Reset Password Page (Mubassir Sudipto)

9:30

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### Reset password

Please type something you'll remember

New password

must be 8 characters

Confirm new password

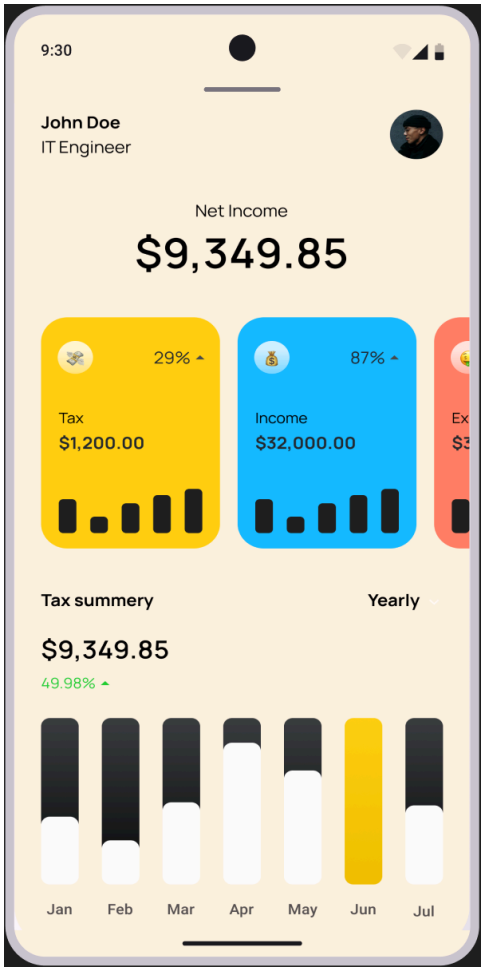
repeat password

Reset password

Already have an account? [Log in](#)

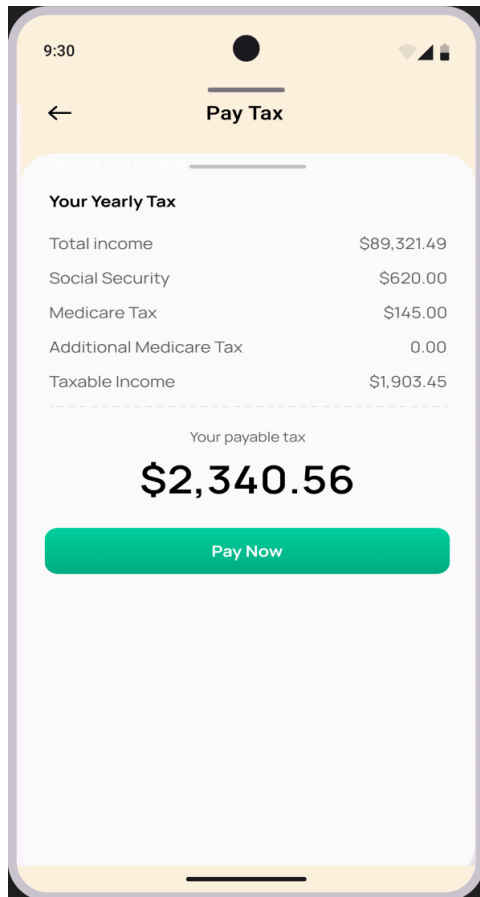
- **Functionality:** If users forget their password, they can reset it on this page. An email address will be requested from users, and they will receive a link to reset their password. They can make a new password on the page after clicking the link. Implementing security measures like token expiration and password strength checks ensures user safety.

# Employee Tax Details Page 1 (Mubassir Sudipto):



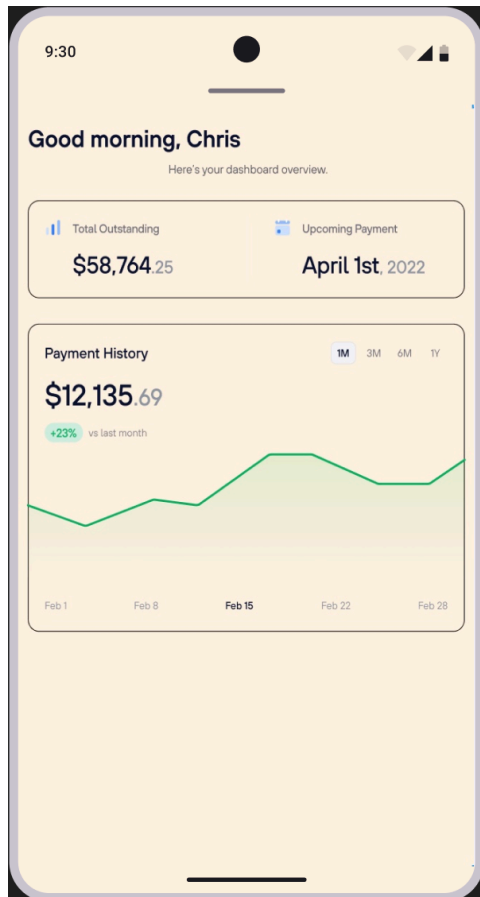
- **Functionality:** Employees can access tax information on this page, including annual taxable income, allowable deductions, and the total amount of tax paid. Links to download pertinent tax documents, such as W-2 forms, are also included. The design makes sure that all tax-related data is visible and accessible.

## Employee Tax Details Page 2 (Mubassir Sudipto):



- **Functionality:** This page adds to the initial tax details page, providing more thorough analyses of tax deductions, tax computations, and the ability to amend or update tax data as needed. Additionally, it might offer more intricate data visualizations, such as annual tax trend graphs.

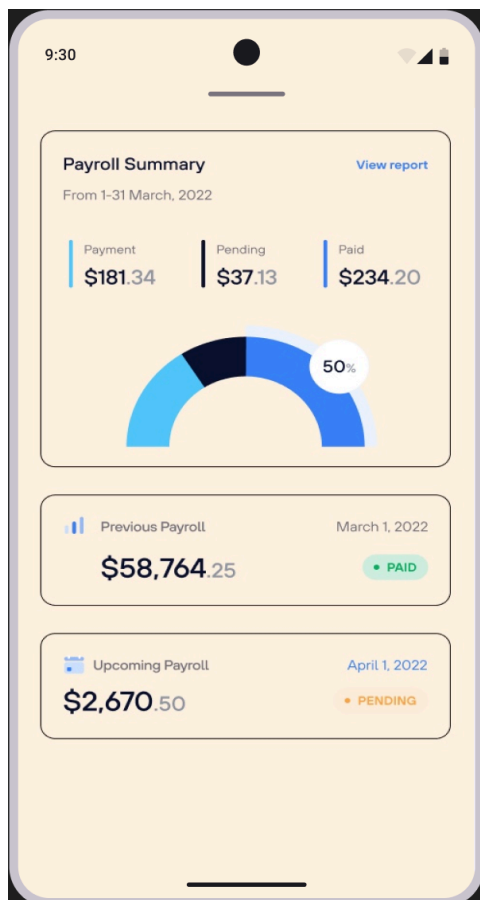
## Payslip Pay Details Page 1 (Mubassir Sudipto):



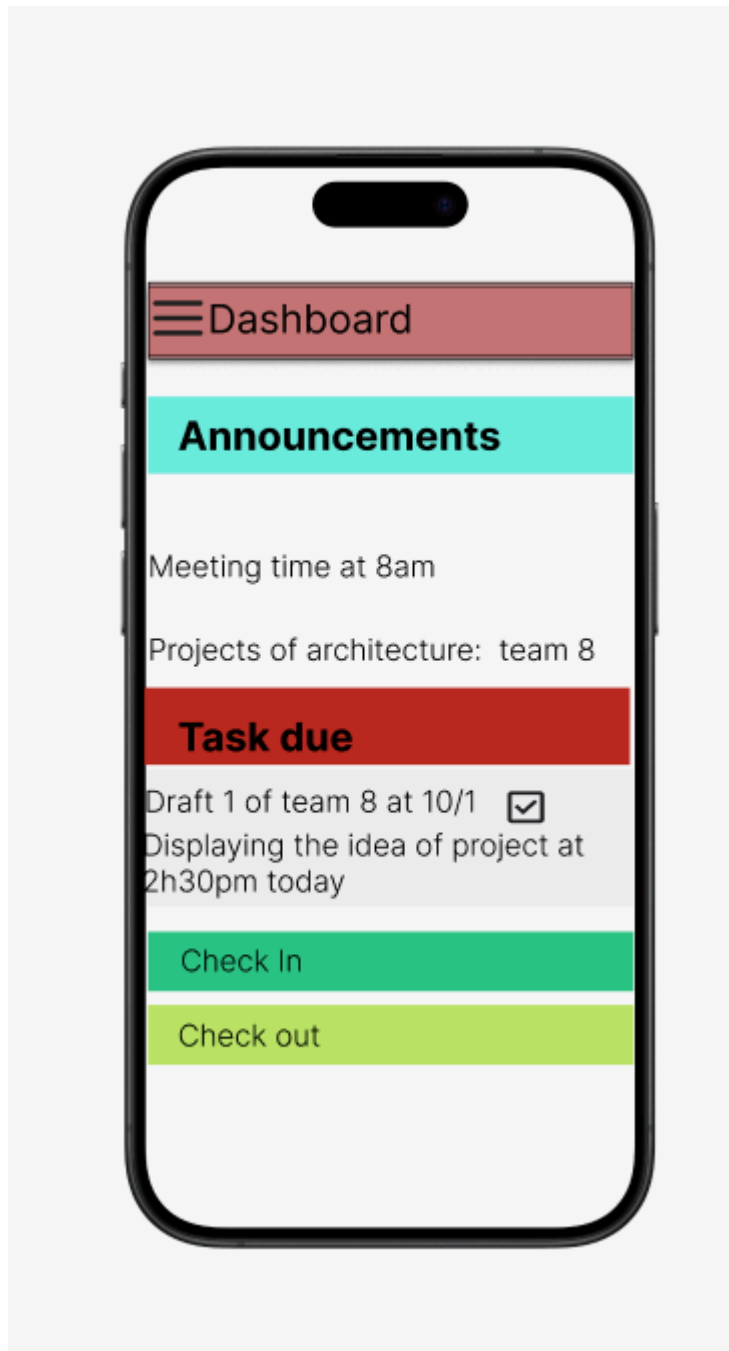
- **Functionality:** The employee's most recent payslip, broken down by gross pay, bonuses, deductions, and net pay, is shown on this page. It also has links to download the most recent payslip in PDF format. The page is made to make sure that all vital information is quickly and easily accessible.



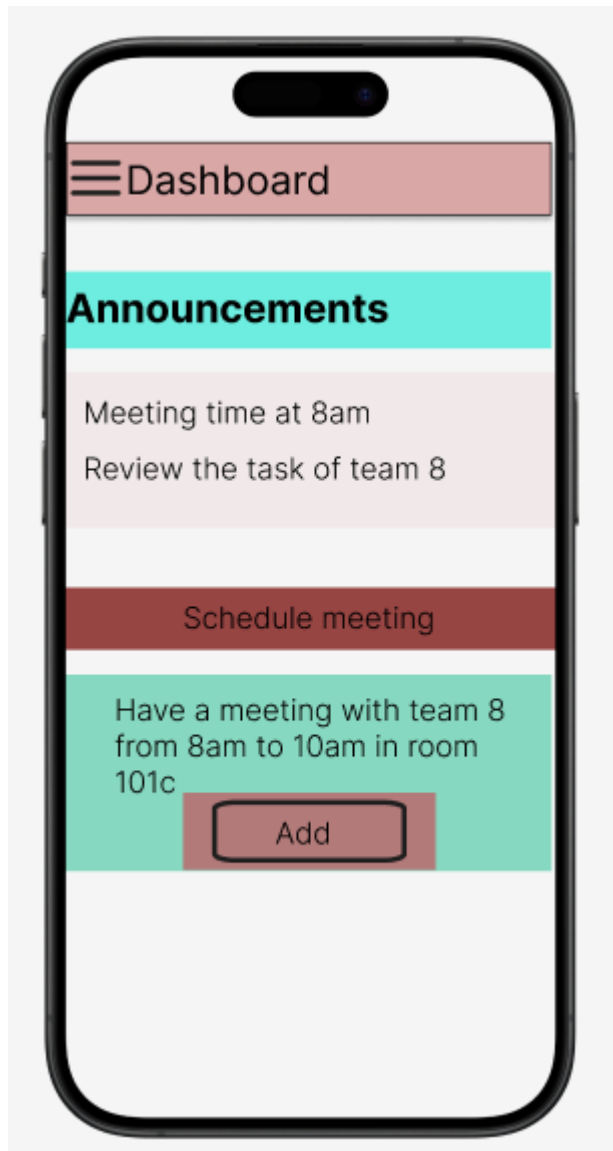
## Payslip Pay Details Page 2 (Mubassir Sudipto):



- **Functionality:** The employee's previous paystubs are listed on this page and can be downloaded. It may also contain a section summarizing the total amount of pay received over a given period and any tax and deduction totals for the year thus far. Over time, this page aims to provide employees with a clear financial overview.



The mobile app dashboard provides several key functions. The hamburger menu at the top allows users to navigate to other parts of the app. Below that, the dashboard displays important announcements, such as meeting times and project assignments, ensuring users stay informed. The "Task Due" section highlights tasks with upcoming deadlines and includes a checkbox for users to mark tasks as completed, helping them manage their responsibilities. At the bottom, the "Check In" and "Check Out" buttons enable users to track their work hours or task activity, supporting efficient time management.



The mobile app dashboard in this image provides several key functions. The hamburger menu allows users to navigate through the app. Below the menu, the **Announcements** section displays important updates, such as "Meeting time at 8am" and "Review the task of team 8," keeping users informed about upcoming events. The **Schedule Meeting** button helps users set meetings with specific details. In this example, the app displays a scheduled meeting with team 8, from 8 am to 10 am, in room 101c. There's also an **Add** button that likely allows users to confirm or add the meeting to their schedule. Overall, the interface is focused on managing meetings and keeping track of announcements.