

# Workflow

Generate Your Schedule With Us

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# Agenda

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- Problem Definition
- Design Requirements
- Solutions
- Project Management
- Conclusion and Future Work

# Introduction

- Employers have a big responsibility to manage employees' schedules in order to fulfill all roles.
- Schedules constantly change, making it difficult to keep everyone updated in real-time.
- Our web-based software application is a scheduling application in which employees can manage their own schedules more efficiently and employers no longer need to manually schedule every task.
- There are many different scheduling applications, however most of them are \$20-60 per month for only a limited number of users.

# Problem Definition

- Managers needing to manually schedule each shift
- Employees needing to choose their shifts by asking the manager
- Most scheduling applications are costly

# Design Requirements

## **Functions:**

- Web-based software application
- Signup
- Login
- Schedule
- Manage(Employers only)

## **Objectives:**

- Employees can choose and view their shifts for the week
- Managers can add or drop employees from a shift
- Managers can view the entire schedule and share it with all employees

# Design Requirements

## **Constraints:**

- Economic Factors – the application is completely free to use, saving on manual supplies
- Regulatory Compliance – authentication, salting and hashing, and authorization
- Ethics – copyright of photos and logos
- Sustainability and Environmental Factors – save paper and supplies
- Societal Impacts – reduces workload and stress

# Solution 1

## Workforce Scheduler

Employee Name:

Day:


Start Time:

End Time:

## Generated Schedule

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# Solution 2


 WorkFlow

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## Workforce Scheduler

Employee: user1@gmail.com


Select Date:



Start Time:



End Time:





# Solution 3

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## Workforce Scheduler

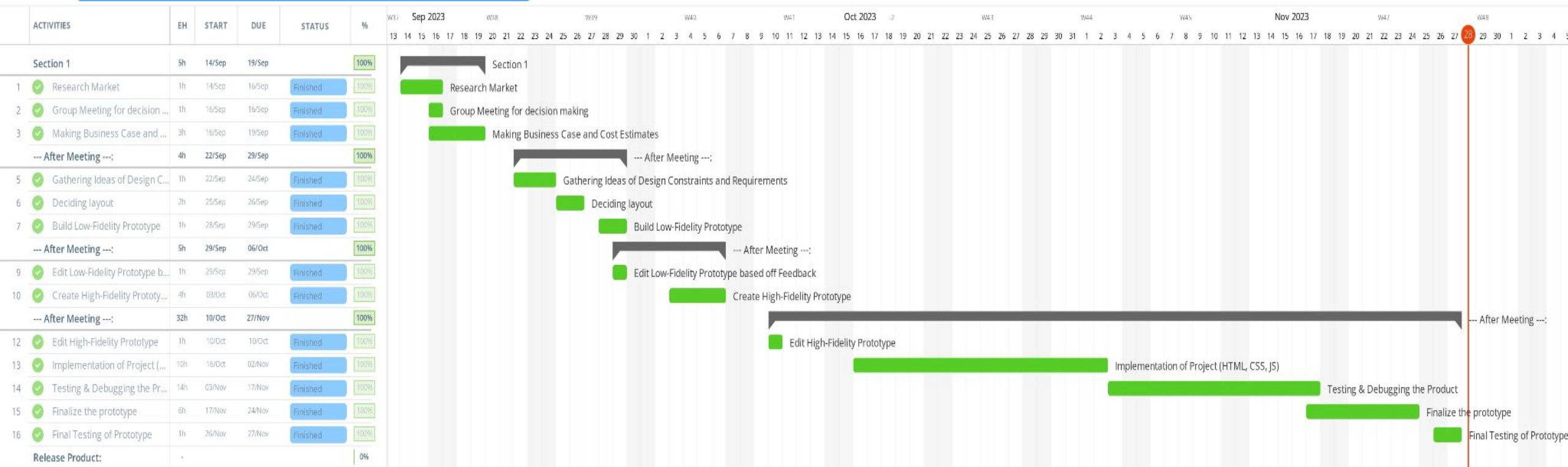
Employee: park@gmail.com

Select a timeslot:

Monday 09:00am-12:00pm	Tuesday 09:00am-12:00pm	Wednesday 09:00am-12:00pm	Thursday 09:00am-12:00pm	Friday 09:00am-12:00pm
Monday 12:00pm-03:00pm	Tuesday 12:00pm-03:00pm	Wednesday 12:00pm-03:00pm	Thursday 12:00pm-03:00pm	Friday 12:00pm-03:00pm
Monday 03:00pm-06:00pm	Tuesday 03:00pm-06:00pm	Wednesday 03:00pm-06:00pm	Thursday 03:00pm-06:00pm	Friday 03:00pm-06:00pm

Solution 1	Solution 2	Solution 3
<ul style="list-style-type: none"><li>● Employees are able to enter their own timings for shifts</li><li>● Does not meet the design requirements of having the manager in control of the shifts</li></ul>	<ul style="list-style-type: none"><li>● This solution is better than solution 1, because it gives the employees a limited amount of options that the manager chooses to display</li><li>● However, it still gives the employees the ability to choose the length of their own shifts</li></ul>	<ul style="list-style-type: none"><li>● This solution is better than solution 2 because it has a set number of shifts for each day, and the manager can choose the length of each shift</li></ul>

# Project Management



# Conclusion And Future Work

- WorkFlow is a free, open source scheduling app
- Employees are given the choice to manage their own schedules
- Managers no longer need to manually schedule each shift
- For future upgrades, we can improve the security of our users by using salting rounds.
- We can also add a payroll system for more convenience
- Add customizable designs