King Saud University

College of Computer and Information Sciences

Department of Software Engineering

WSL

SWE-444

Team Members

Names

Name	ID
Talal Alothman	443100791
Talal Alkahtani	443102369
Khaled Alharbi	443102249
Saud Alkatheeri	443100710
Saleh Alghaith	443101007

Sprint Report 0

Date:9/9/2023

Table of Contents

Team Collaboration Tools

GitHub page

https://github.com/Salghaith/swe444_project

Trello Page

https://trello.com/invite/b/66ccc7ab7d60d39b4b54677c/ATTIbc2999923dd66091367f2a7a593539acCDE96F0F/444-swe

OneDrive

https://1drv.ms/w/c/8fe3d5af5e1b8a45/EZY0bX9WCU1Apr8d4qLjMUQB_LxAUc9rY1R7Gvd2DZcmSw?e=JqVmxw

Figma Home Page mockup

https://www.figma.com/design/RMfHgktppfcqMyhJF2Y8jY/Untitled?node-id=0-1&t=BKWe6mGHGsl7qxHR-1

Sprint: 0 Date from 28/8 to 9/9

Description

In today's fast-paced world, finding trustworthy local services can be a challenge. Our website addresses this by providing a convenient platform where users can search for and discover a variety of services, such as car washes, electricians, and more.

The platform features a rating system that allows users to provide feedback on businesses, helping others make informed decisions. Each service has its own dedicated page that displays ratings, descriptions, and contact information. Additionally, service providers can configure and display their store locations, making it easy for customers to find them.

By simplifying the discovery process and promoting transparency, our website helps bridge the gap between customers and local businesses.

Purpose

The purpose of this project is to simplify the process of finding and evaluating local services, helping users make informed choices while giving businesses a tool to share important details and improve visibility.

Problems to be Addressed

1- Limited-Service Discovery: Users face challenges in finding and comparing local services efficiently, often relying on word of mouth or scattered reviews.

2- Lack of Reliable Feedback: Existing platforms may not provide comprehensive or trustworthy ratings and reviews, making it difficult for consumers to make informed decisions.

3- Low Business Visibility: Many local businesses struggle to gain visibility and connect with potential customers in a competitive market, limiting their reach and growth.

4- Inadequate Service Information: Customers often have limited access to essential details like location, contact information, and service descriptions, leading to inconvenience in finding suitable service providers.

Stakeholders / Actors Identification

End Users (Clients)

Definition: Individuals using the platform to find and contact businesses that provide various services. They are primarily focused on browsing services, contacting providers, and writing reviews.

Role: Clients use the system to interact with businesses, seek services, and share their experiences through reviews.

Businesses (Service Providers)

Definition: Businesses or service providers that create accounts on the platform to promote their services, list contact information, and manage client inquiries.

Role: Businesses create profiles, register their business, manage reviews and maintain their public reputation on the platform.

Platform Admins

Definition: Administrators responsible for managing the overall platform, including overseeing business registrations, managing user data, and ensuring the system operates smoothly.
Role: Admins handle backend functions such as approving or removing business accounts, moderating reviews, handling technical issues, and ensuring security.

Development Team

Definition: The team responsible for the design, development, and deployment of the platform.
Role: Developers implement features, manage integrations with third-party APIs (like Google API), and oversee deployment and maintenance. They also fix bugs and update the platform as needed.

Third-Party Service Providers (e.g., Google API, Cloud Providers)

Definition: External services integrated into the platform, and cloud providers for hosting and deployment.
Role: These services provide essential functionalities, notifications, and hosting, enabling seamless operation of the platform.

Product Backlog

ID	Type	Title
U-1	User Story	Client Signup
U-2	User Story	Client Login and Logout
U-3	User Story	Update Client Information
U-4	User Story	Search for businesses
U-5	User Story	Contact Business
U-6	User Story	Email and Contact Form
U-7	User Story	Submit Business Reviews
U-8	User Story	Notification System
U-9	User Story	Business Account Registration
U-10	User Story	Business Profile Management
U-11	User Story	Organize and Manage Business Services
U-12	User Story	Review Management
U-13	User Story	Notifications for Inquiries and Reviews
U-14	User Story	Reset Password

Infrastructure Readiness

ID	Type	Name	Status
1	Network	Ensure stable and high-speed internet connectivity for all team members.	Ready
2	Network	Ensure reliable network connections to external APIs and services that the application will interact with.	Not available
3	Development Environments	Configure development environments for all developers.	To be acquired
4	System	Ensure all developers have the necessary software installed.	Ready
5	System	Install and configure web servers, application servers and databases as needed for development, and testing.	To be acquired
6	Logistic	Set up communication tools such as WhatsApp and Discord for effective team coordination.	Ready
7	Logistic	Provide access to shared document repositories such as OneDrive for storing and managing project documentation.	Ready

Environment Specification (Tools)

ID	Type	Name	Status
1	UI/UX	Figma	Available
2	Front-end tool	React	Available
3	Design tool	Lucidchart	Available
4	Database Tool	MongoDB	To be acquired
5	Version Control	GitHub	Available
6	IDE	VS Code	Available
7	Back-end tool	Node Js, Express Js	Available

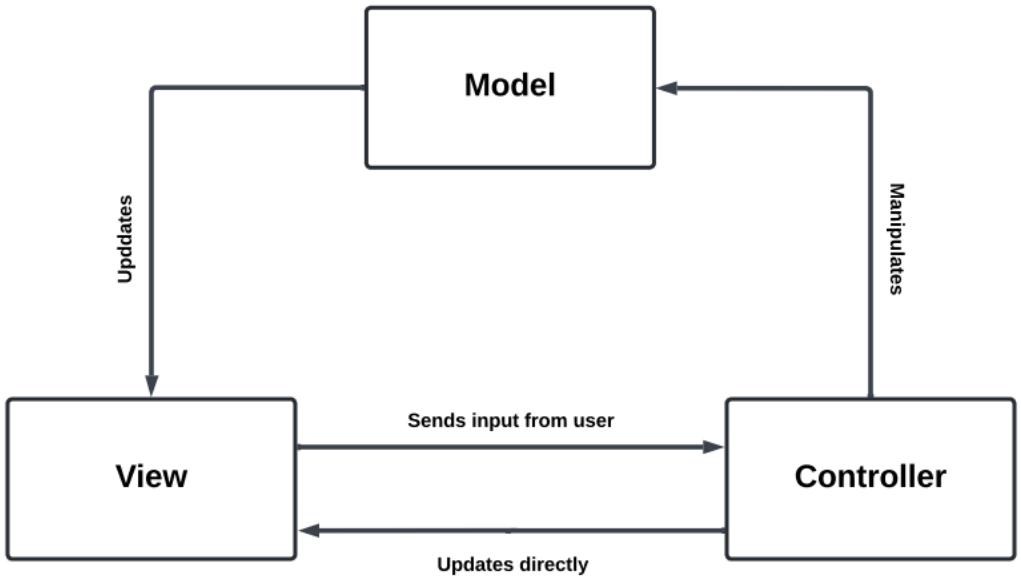
Team Readiness

ID	Name	Skill	Status
1	Khaled Alharbi	UI/UX designer, Front-end developer	Available
2	Talal Alothman	Front-end developer	Available
3	Saud Alkatheeri	Full stack developer	Available
4	Talal Alkahtani	Front-end developer	Available
5	Saleh Alghaith	Back-end developer	Available

Training

Name	Skill	Related to	Person to be trained	Source	Duration
Maximilian Schwarzmüller	MERN Fullstack	Technical	All the group	Online	3 weeks
Alzero	GitHub	Technical	All the group	Online	2 Days

Design / Architecture



In our project, we'll use the MVC (Model-View-Controller) architecture to structure the web application because it provides several key benefits. First, it ensures a clear separation of concerns, making the application easier to manage and maintain. Each component (Model, View, Controller) is responsible for a distinct part of the application, leading to better code organization and scalability as the project grows. Second, MVC supports parallel development, which is particularly important because we are following the Scrum methodology in our project. Scrum's iterative approach with short development cycles (sprints) aligns well with MVC, as it allows the team to work simultaneously on different aspects (e.g., one team can focus on the Model while another works on the View). This speeds up the process and ensures continuous integration of features throughout each sprint.

Additionally, MVC promotes code reusability and flexibility, which fits well with the incremental nature of Scrum. As we progress through sprints and gather feedback, we can easily extend or modify parts of the system (like the Controller or View) without affecting the rest of the application. Overall, MVC and Scrum together enable a more agile and efficient development process, ensuring that we can deliver functional increments of the application at the end of each sprint.

Project Release Road-map

ID	Type	Title	**Release date / Sprint**
1	GUI	Client Signup	30 September / Sprint 1
2	GUI	Client Login and Logout	30 September / Sprint 1
9	Web Page	Business Account Registration	30 September / Sprint 1
3	GUI	Update Client Information	21 October / Sprint 2
10	Web Page	Business Profile Management	21 October / Sprint 2
11	Web Page	Organize and Manage Business Services	21 October / Sprint 2
4	Web Page	Search for businesses	6 November / Sprint 3
5	GUI	Contact Business	6 November / Sprint 3
6	GUI	Email and Contact Form	2 December / Sprint 4
7	GUI	Submit Business Reviews	2 December / Sprint 4
8	Animation	Notification System	2 December / Sprint 4
12	GUI/Web Page	Review Management	2 December / Sprint 4
13	Animation	Notifications for Inquiries and Reviews	2 December / Sprint 4
14	Backend	Reset Password	2 December / Sprint 4

GUI (Graphical User Interface): Used for direct interactions with the user, such as forms, buttons, and other interactive elements.

Web Page: Refers to complete pages or sections on the website where users can interact with various features.

Animation: Refers to dynamic elements or transitions within the user interface.

Backend: Refers to server-side functionality, such as password reset processes.

Project Management Plan (High Level)

Project Scope

In-Scope:
User Features:

- User registration and login/logout functionality.
- Ability for users to browse service-providing businesses by category.
- Contact businesses via email or other provided contact methods.
- Write, view and submit reviews for businesses.
- Notifications for users regarding reviews and messages.

Business Features:

- Business registration and profile management.
- Ability for businesses to receive inquiries from users.
- Businesses receive notifications for new reviews or contact requests.

System Features:

- User and business account management.

- Integration with a third-party email service.
- Basic notification system (email, web notifications).
- Deployment of the web application on a cloud platform.

Out-of-Scope:

- Advanced task management systems (e.g., assigning tasks, tracking progress).
- Payment gateway or online transaction handling.
- Support for restaurants and dining services.
- Handling of bookings or reservations directly through the platform.
- Complex notifications.

Assumptions

- All team members have access to the required tools and environments.
- The project will be completed within the allocated time.
- Internet connectivity for all developers is stable and sufficient.
- Third-party systems will be reliable and available during development and production.
- Businesses will manage client interactions externally (outside of the platform).

Dependencies

- Third-Party Systems
    - Communication tools services integration.
    - Notification service such as web push notifications setup.

- Deployment Infrastructure
    - Cloud hosting service for production deployment.
    - Version control system (GitHub) for code management.

- Development Stack
    - All necessary libraries, frameworks, and tools are installed and functional.

Any Risks

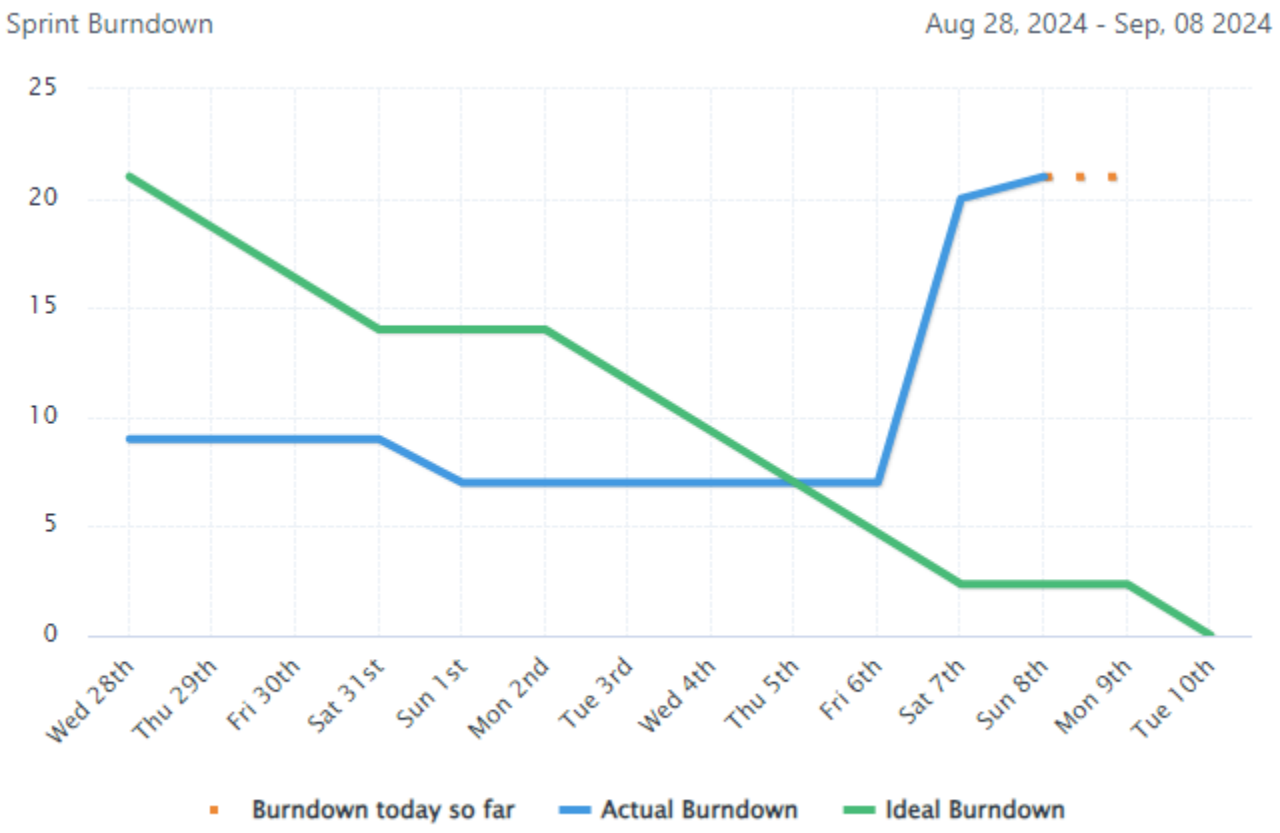
- Third-Party Service Failure: Downtime or unavailability of third-party services may cause communication issues between users and businesses.

- Security Issues: Unauthorized access or data breaches, particularly in user and business accounts.

- Deployment Challenges: Issues with cloud deployment could delay progress.

- Team Availability: Team members may become unavailable due to unknown circumstances, impacting development progress.

Burndown Chart



Resources

https://scrumguides.org/docs/scrumguide/v2020/2020-Scrum-Guide-US.pdf#zoom=100

https://www.youtube.com/watch?v=geRKHFzTxNY