Project Planning Report

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Repository:

https://github.com/doda2391/group-5-project

Table Of Content

Overview

For this project, team members decided to design a store application for a clothing company that gets the products data from an API and shows the clothes based on the current weather. To implement this project, 3 phases have been considered including project preparation, planning, and execution. As implementing this kind of project is new for the team members, the team decided to follow the Agile methodology to have the flexibility to change each design based on the requirements.

SDLC Model

Other reasons that team members decided to choose Agile as the System Development Life Cycle for the project are as follows:

- Agile has more flexibility rather than plan-driven models. In plan-driven models, requirements are defined, and after planning and setting requirements, the implementation step will start. But, In the Agile model, requirements can alter in any phase of the project.
- There is regular feedback and pair working in Agile model which leads smoothly delivering the project.
- The Agile model is so popular in the industry, and it is a good practice for a future career path.

User Stories

To create a realistic, concrete, and shared view of the user, the team defined two User Stories for this project which are as follows:

As a customer, I want to see appropriate clothes based on weather prediction so I can choose between them.

As a website visitor, I like to see the weather forecasts on a specific date in my city, to decide what kind of activity I can do or what kind of clothes I can wear.

Tech Stack

For the implementation phase, the team needs to use a programming language for coding the web application. JavaScript, which is a web design language, is chosen for this aim because all team members have the necessary skills to write and test codes and scripts in this language.

Moreover, the team has decided to use React.js which is a free front-end library of JavaScript to design the web application. The reason behind this is applying new technology of web application design in the project.

For UI and interface design, the team will use Bootstrap from the npm package. npm is the default package manager for the JavaScript runtime environment Node.js. Therefore, we will install the Node.js package for the project to style the web application for its CSS.

Chosen APIs

The team will use two API to design, implement, and test the project:

- A weather API forecasts the weather based on a specific city, on a specific date.
- A shopping API that provides cloth items available on the online market.

Planned features per each API (in detail - 3 features per each API, 6 features minimum)

While the web application will use a weather API and a shopping API, it will have the following features for each API:

Weather API:

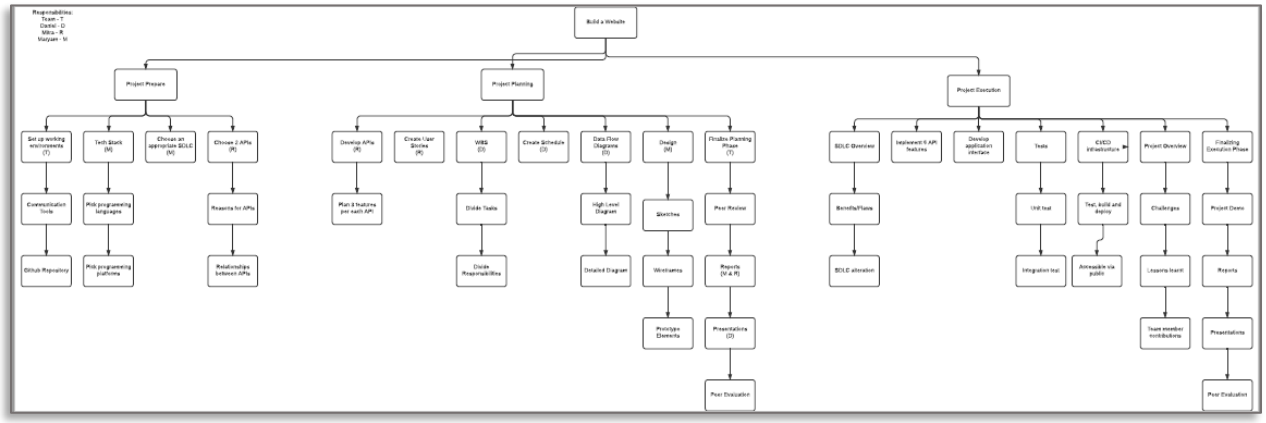
- An input Box to Enter the name of the target city.
- A date picker to select the date we need to see the weather prediction.
- An Icon will show the weather if it is rainy, sunny, or cloudy.

Shopping API:

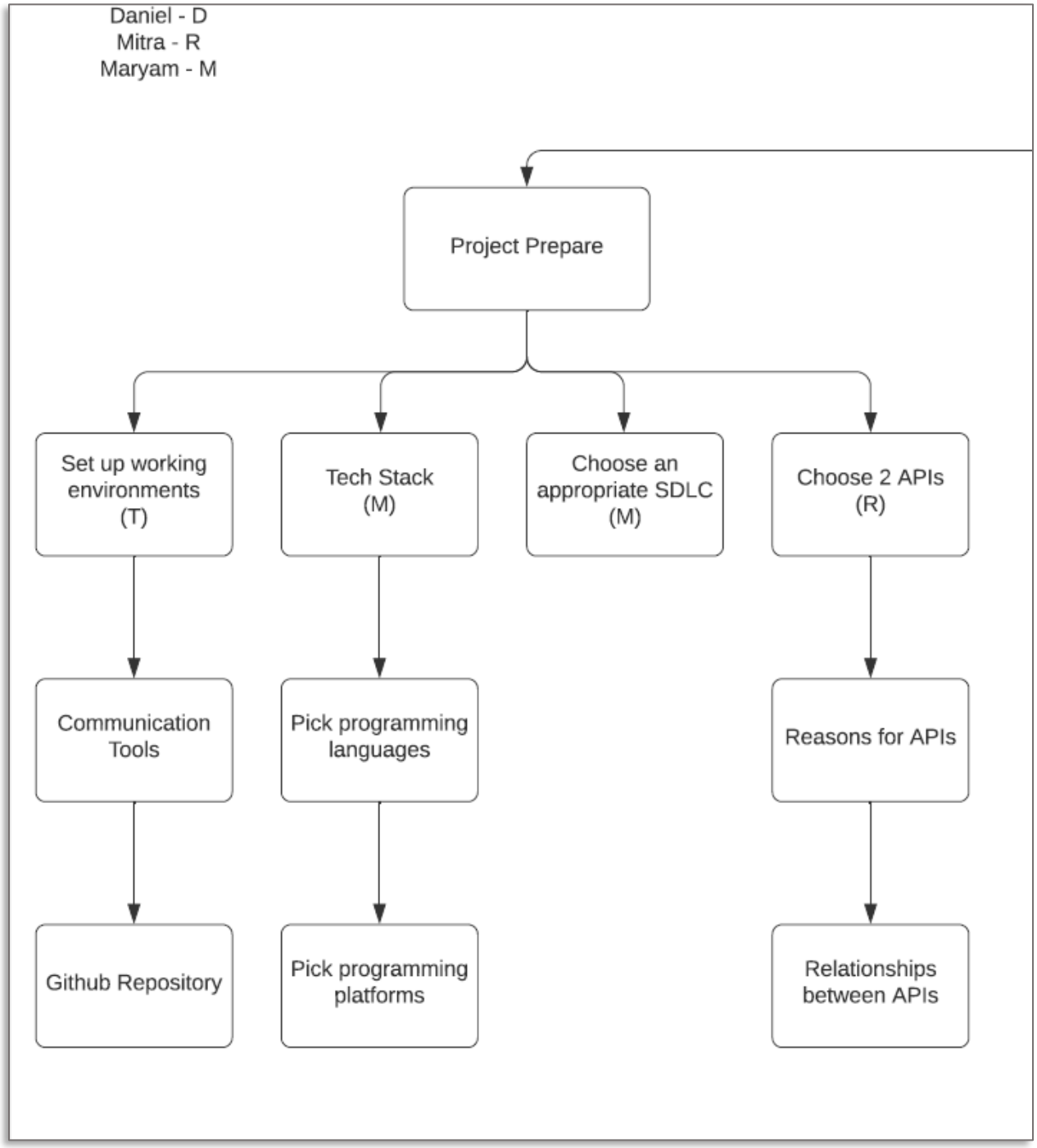
- A Selection menu will categorize clothes based on Tops, Pants, Skirts.
- A selection menu to filter clothes based on gender.

- A sale button to show sale clothes based on the weather prediction.

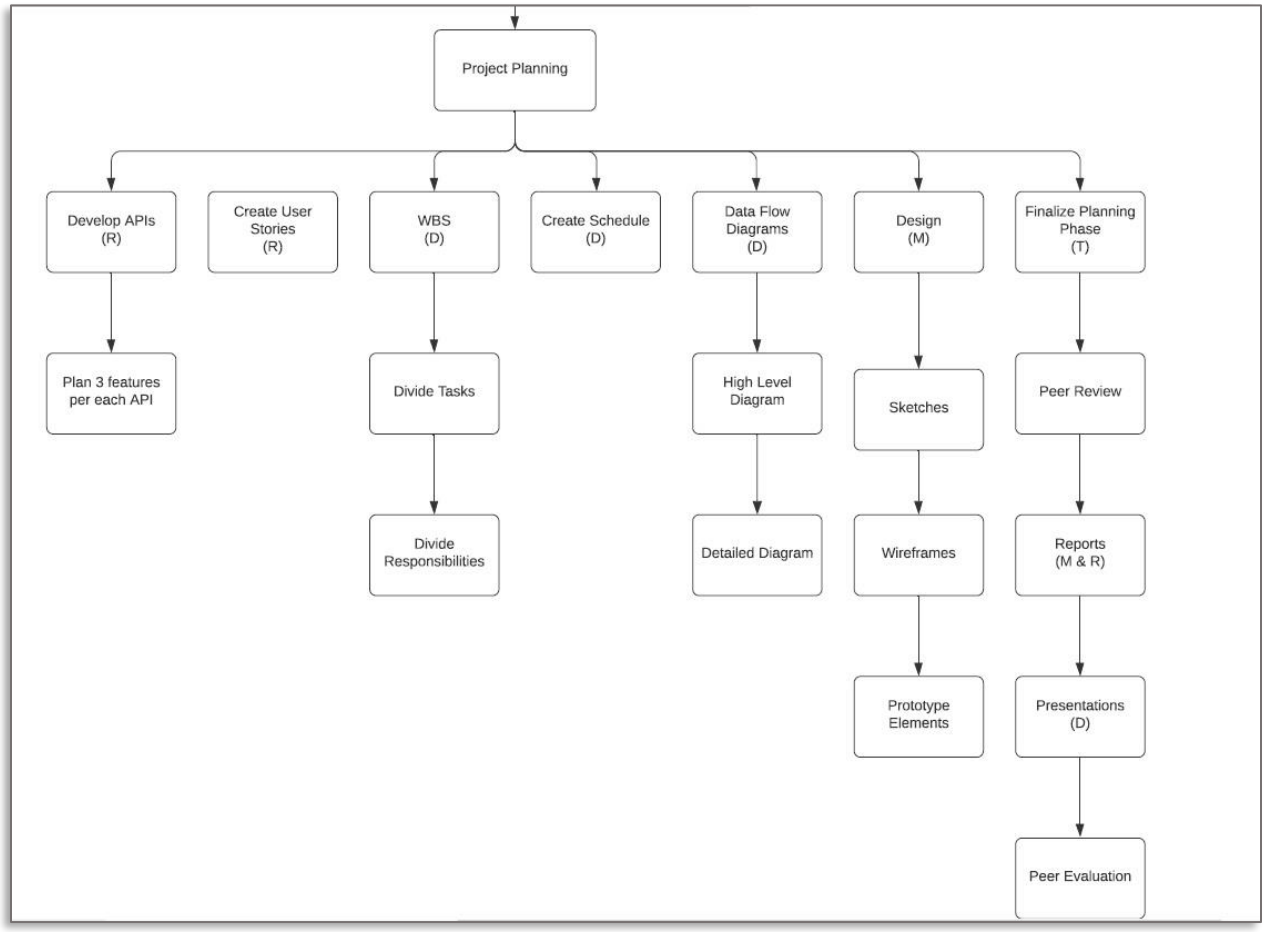
WBS Overview



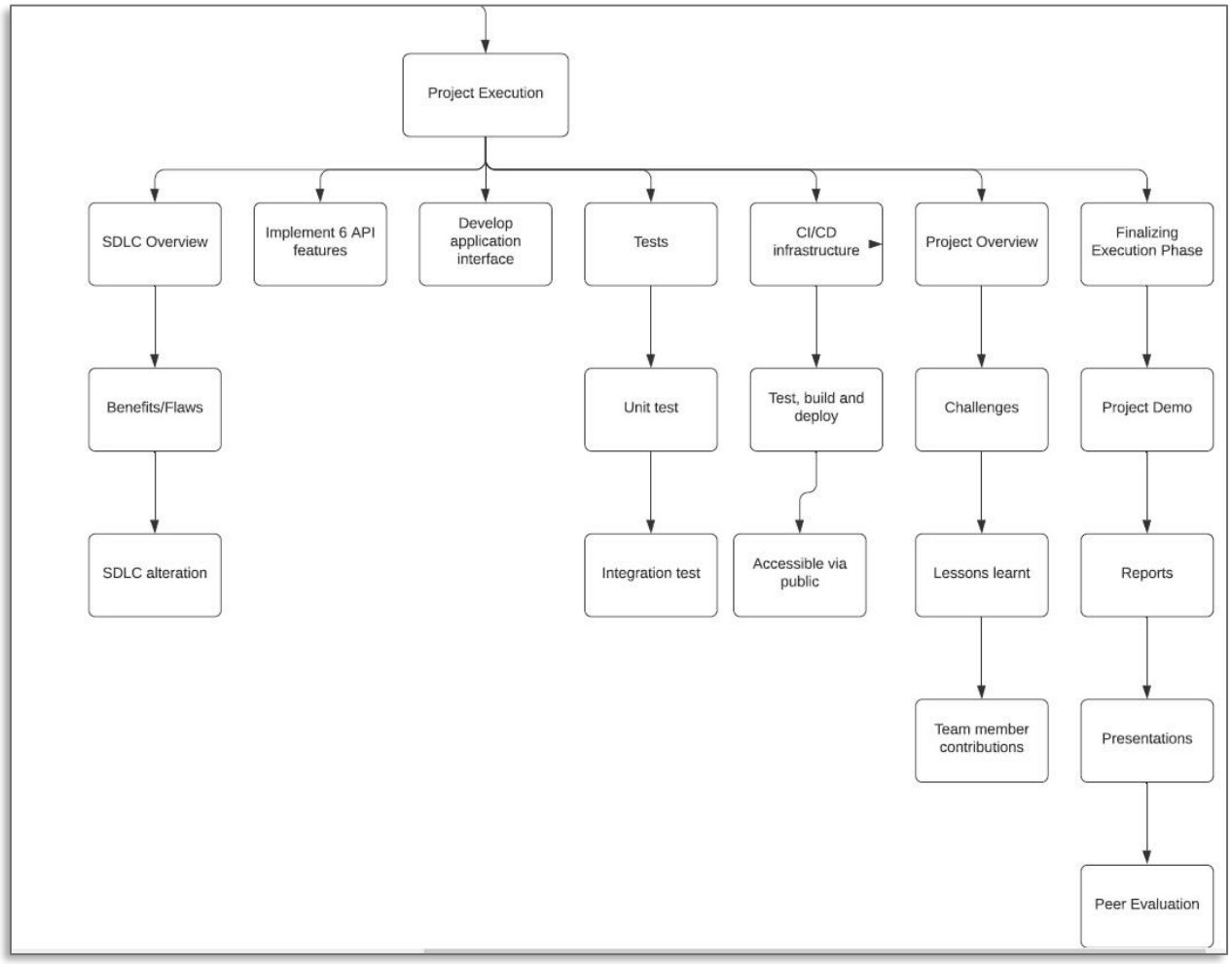
WBS - Project Overview



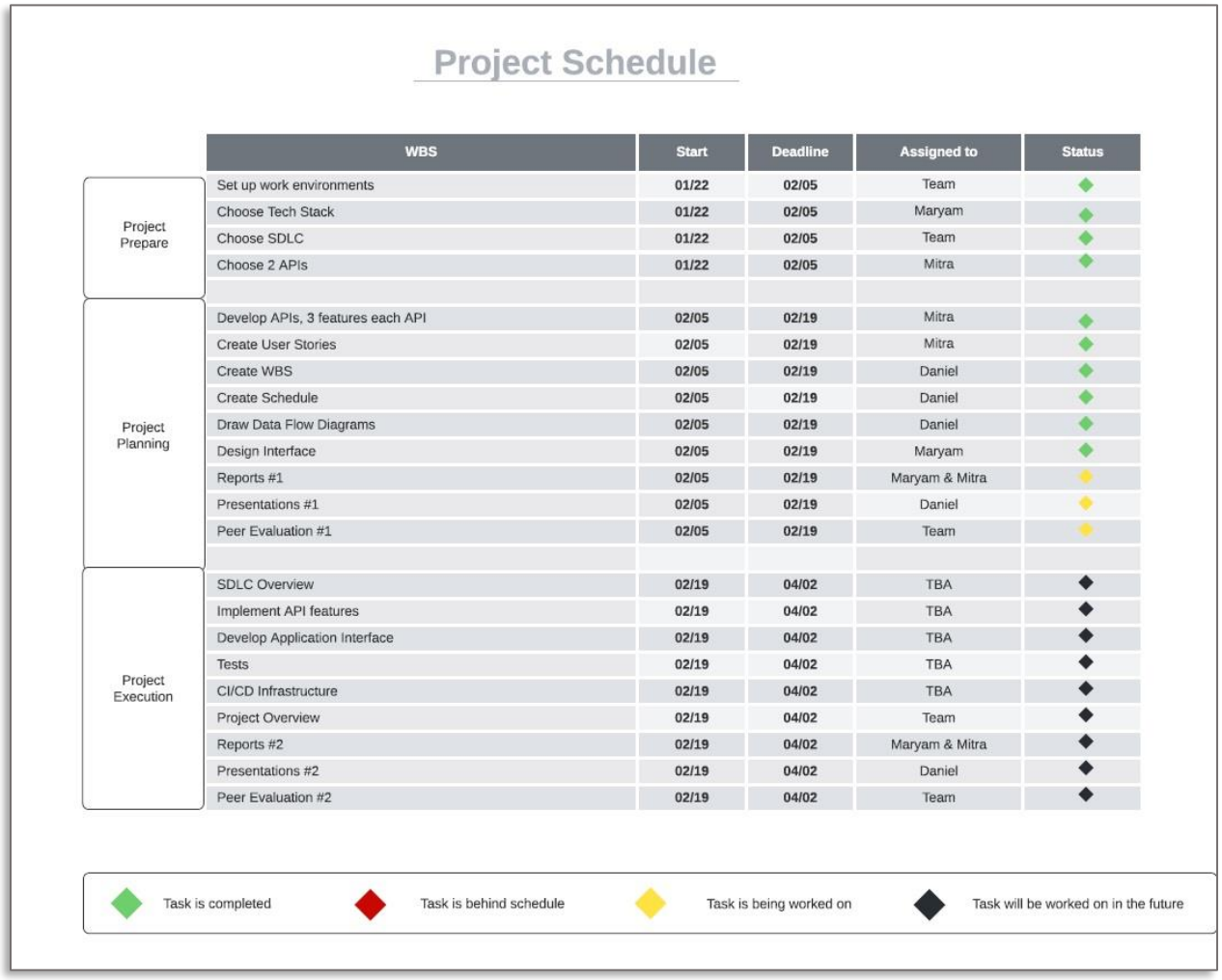
WBS - Project Planning



WBS - Project Execution



Project Schedule

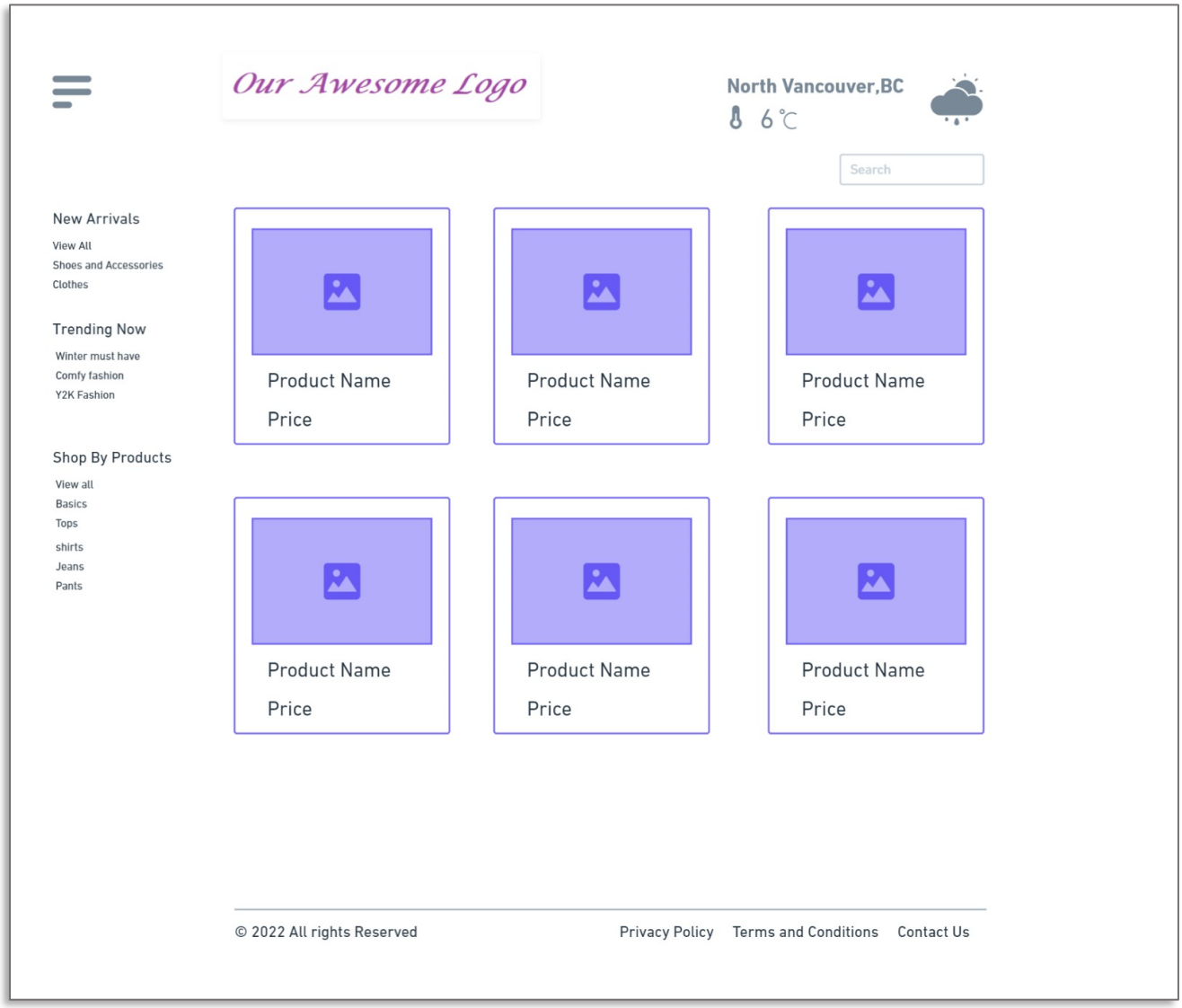


Project Schedule

	WBS	Start	Deadline	Assigned to	Status
Project Prepare	Set up work environments	01/22	02/05	Team	◆
	Choose Tech Stack	01/22	02/05	Maryam	◆
	Choose SDLC	01/22	02/05	Team	◆
	Choose 2 APIs	01/22	02/05	Mitra	◆
Project Planning	Develop APIs, 3 features each API	02/05	02/19	Mitra	◆
	Create User Stories	02/05	02/19	Mitra	◆
	Create WBS	02/05	02/19	Daniel	◆
	Create Schedule	02/05	02/19	Daniel	◆
	Draw Data Flow Diagrams	02/05	02/19	Daniel	◆
	Design Interface	02/05	02/19	Maryam	◆
	Reports #1	02/05	02/19	Maryam & Mitra	◆
	Presentations #1	02/05	02/19	Daniel	◆
	Peer Evaluation #1	02/05	02/19	Team	◆
Project Execution	SDLC Overview	02/19	04/02	TBA	◆
	Implement API features	02/19	04/02	TBA	◆
	Develop Application Interface	02/19	04/02	TBA	◆
	Tests	02/19	04/02	TBA	◆
	CI/CD Infrastructure	02/19	04/02	TBA	◆
	Project Overview	02/19	04/02	Team	◆
	Reports #2	02/19	04/02	Maryam & Mitra	◆
	Presentations #2	02/19	04/02	Daniel	◆
	Peer Evaluation #2	02/19	04/02	Team	◆

◆ Task is completed ◆ Task is behind schedule ◆ Task is being worked on ◆ Task will be worked on in the future

Wireframe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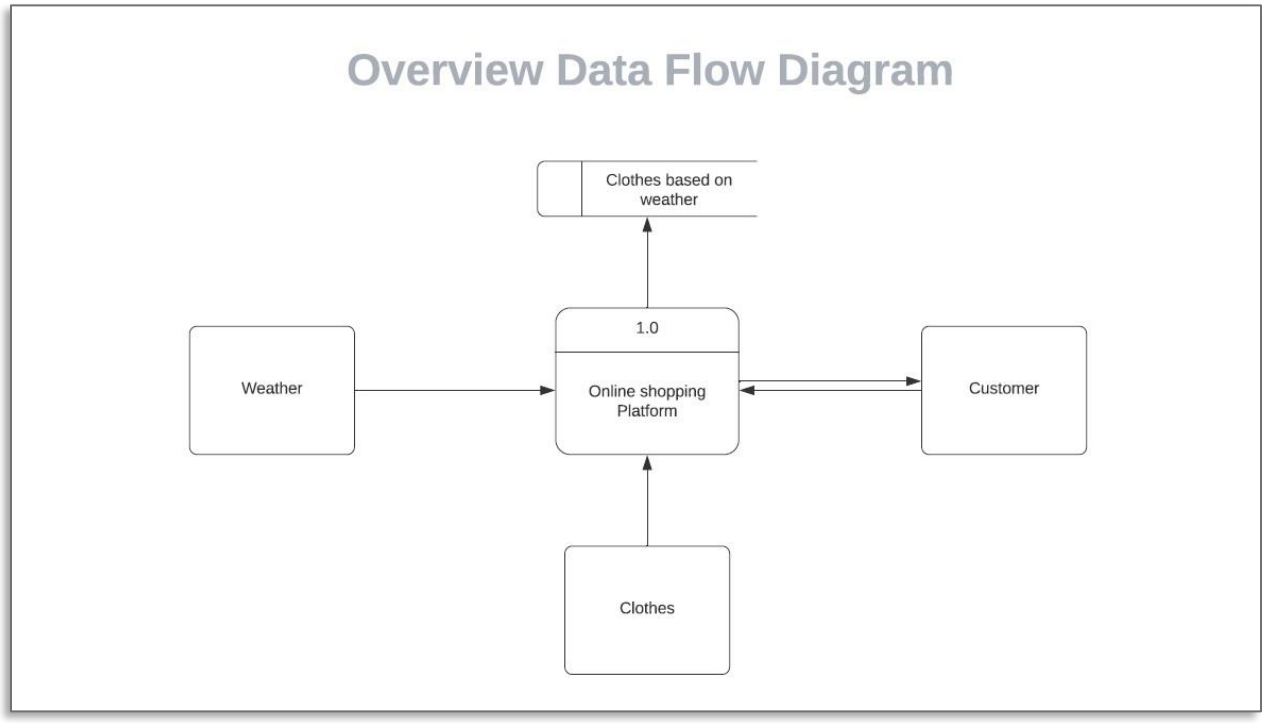
Overview Data Flow Diagram



Detailed Data Flow Diagram