PROJECT PLAN

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**Name:** MelCast – A Weather App Project

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# Purpose of the Document

This document will go over introduction, scope, time management, and testing of MelCast. It will give context to the reader about the writer’s goals of implementation.

# Introduction

MelCast aims to be a reliable weather forecasting application which shows information about the weather events of the selected geographical locations.

MelCast will provide seven-day prognosis of selected locations, as well as current meteorological conditions.

## Context

MelCast is a project that has been developed by Melisa Lachev as a practical project to practice vanilla JavaScript. With this project, I aim to improve upon my knowledge of working with APIs, AJAX, promises, async functions, design with HTML and CSS, vanilla JavaScript, as well as DOM manipulation. Moreover, I want to get to know designing with Figma and project plan creation along with engineering diagrams.

# Project Scope

|  |  |
| --- | --- |
| In-Scope | Out-of-Scope |
| Search functionality which allows user to select a location. | Backwards weather data. |
| Current weather data of the selected location, including min-max temperature, UV index, precipitation, felt weather, air quality, and wind speed. | Moon cycles. |
| Hourly weather forecast of the selected location. | Severe weather alerts. |
| Seven-day weather forecast of the selected location. | Weather news section. |
| Sunrise and sunset hours of the selected location. |  |

# User Stories

1. As a user I want a web page to get my location automatically and display weather data afterwards.
2. As a user I want my city to have a corresponding image of the weather.
3. As a user I want to search for my city and get the current weather data.
4. As a user I want to see the hourly weather after selecting my city.
5. As a user I want to see UV index after selecting my city.
6. As a user I want to see min-max temperatures after selecting my city.
7. As a user I want to see 3 days weather data after selecting my city.
8. As a user I want to see sunrise and sunset times after selecting my city.
9. As a user I want to see the felt weather after selecting my city.
10. As a user I want to precipitation chance after selecting my city.
11. As a user I want to see air quality after selecting my city.
12. As a user I want to see wind speed after selecting my city.
13. As a user I want to select different languages.
14. As a user I want my selected language to be saved.
15. As a user I want to be able to star certain locations.
16. As a user I want my starred locations to be saved.
17. As a user I want to have night and day mode.
18. As a user I want my night and day mode selection to be saved.
19. As a user I want to be able to use this on my phone through the browser.
20. As a user I want my night and day mode to be auto-arranged according to my browser preferences.
21. As a user I want to easily read the data without changing my font or scale.
22. As a user I want searches to auto complete.

# Time Management

Each user story has associated story points with it.

The total amount of story points will equal to the total amount of duration of this project.