

2023

# Individual Project

## Project Planning

This document presents the project plan for creating an IT management system for Astra Dynamics. The target audience is comprised of employees and regular people.



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# **Project Definition**

## **Background**

Astra Dynamics is a company that handles space objects in close proximity of Earth. This includes satellites, space stations, meteorites and many more. The company has requested an IT solution for optimizing the way they handle the data they are responsible for providing, and for connecting the general public with the scientists employed.

## **Project goal**

The goal of the project is to create a system to help manage known objects in the proximity of Earth, detect and record new objects, as well as automate making complex calculations like orbital trajectory and many others. The project will also allow users of the general public to connect with the scientists and provide their data / discoveries. The reasoning behind this is to connect the collective brainpower of internet users with serious issues that may go under the radar.

## **Expected result**

The final product would be a comprised of a desktop application and a web application. While the functionalities will be mostly the same, there will be some key differences. If the desktop app's target audience is mainly employees of Astra Dynamics, the web app's target audience is comprised of people passionate about astrophysics and astronomy.

## **Deliverables**

The deliverables will be a web application and a desktop application, as well as the project plan and the user requirements specifications document. Additionally, a database will be provided as part of both the applications.

## **Non-deliverables**

The client will not receive all of my documentation files, unless explicitly requested. //summer holiday service, hardware

The client will not receive the test data, performance measurements and other technical details of development.

## Constraints

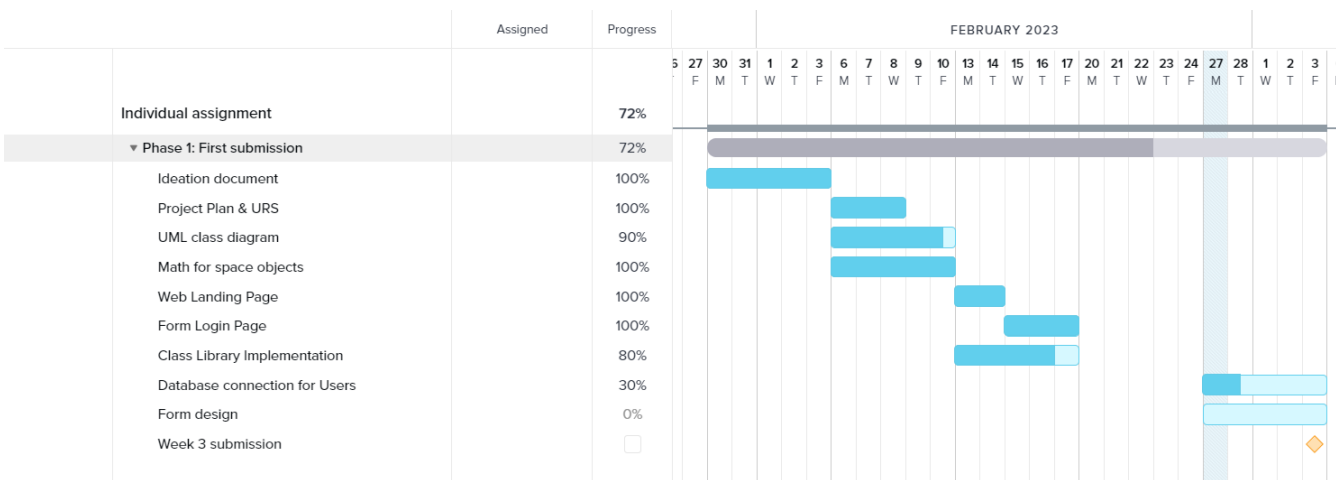
The project could have limitations regarding time. Because of my experience level, tasks may take longer than expected. //specify

Since what is being evaluated is mostly functionality and code quality, the UX/UI design may be lacking in some areas.

With a very little number of testers, accessibility and usability issues may go undetected.

I am planning to use C# as the main programming language. The desktop application will be done with the use of Windows Forms. The web side of the application will be done with the use of .NET Core Razorpages framework, as well as HTML, CSS and JavaScript for the design. For the data, I will be using Microsoft Sql Server.

## Phasing



	Assigned	Progress	APRIL 2023																											
Week 7 Submission		<input checked="" type="checkbox"/>	3	4	5	6	7	10	11	12	13	14	17	18	19	20	21	24	25	26	27	28	1	2	3	4	5			
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Layer architecture quality of life fix		100%	<div></div>																											
Landing page fix for web		100%	<div></div>																											
Info page web fix		100%	<div></div>																											
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Unit testing for manager classes		100%	<div></div>																											
Check for all CRUD functionalities in app		100%	<div></div>																											
Query optimization		100%	<div></div>																											
Week 12 submission		<input checked="" type="checkbox"/>	<div></div>																											

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