Project Timeline (Estimated)

Project Summary

The goal of our project is to create a comprehensive user-friendly database that compiles information about various exoplanets. Our database will contain different entities such as stars, galaxies, researchers, space agencies, publications, and space missions; and will create a centralised platform for the purpose of storing and retrieving this data.

Task	To be done by	Deadline
Correct create/insert statements	Rishav	15th March
Initialise a space on Oracle, add existing SQL code to it, connect it to github	Saumya	16th March
Decide the front end user stories, functionalities, views	Everyone	20th March
Write the actual SQL queries	Jaiveer	23rd March
Backend and connecting backend to SQL server	Everyone	25th March
REST APIs : connecting backend to frontend	Everyone	28th March
Simple Frontend	Everyone	31st March
Final Frontend	Everyone	2nd April

ER Diagram

Publication (ID, Title, Peer Reviewed, Citation)

ISA — Partial & Overlapping:
- **Journal Article** (DOI)
- **Conference Proceeding** (Location)
- **Book Chapter** (Book Name)

Written By — Publication / Researcher

Galaxy (Name, Age, Distance from earth (million light years), Size)

Belongs To — Galaxy / Star

Star (Name, Mass, Stellar Class, Radius, Temperature Range, Colour)

Orbits — Star / Exoplanet

Written In — Publication / Exoplanet

Exoplanet (Discovery Year, Distance from Earth (Light Years), Name, Orbital Period, Radius, Mass, Eccentricity, Type, Volume, Density)

Space Program (Name, Objective)

ISA — Total & Disjoint:
- **Observatory** (Location)
- **Mission** (Launch Year, Status)

Initiated By — Space Program / Space Agency

Discovered At (Discovery Method) — Exoplanet / Space Agency

Space Agency (Name, Acronym, Region)

Works At — Space Agency / Researcher

Researcher (ID, E-Mail Address, Name, Affiliation)

Discovered By — Exoplanet / Researcher