
CPSC 304 Project Cover Page

Milestone #: 1

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Group Number: 106

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By typing our names and student numbers in the above table, we certify that the work in the attached assignment was performed solely by those whose names and student IDs are included above. (In the case of Project Milestone 0, the main purpose of this page is for you to let us know your e-mail address, and then let us assign you to a TA for your project supervisor.)

In addition, we indicate that we are fully aware of the rules and consequences of plagiarism, as set forth by the Department of Computer Science and the University of British Columbia

Project Proposal

What is the domain of the application?

The domain of our project is space exploration and exoplanet research. This application is designed to facilitate the organization, analysis, and exploration of data related to exoplanets and their host stars.

What aspects of the domain are modelled by the database?

The database models various aspects of the space exploration and exoplanet research domain, consisting of key entities and their attributes. The database addresses the modelling of celestial bodies, stars, galaxies, researchers, space agencies, publications, and space missions, providing a platform for exploring and analyzing data related to exoplanets and their host systems within the broader domain of space exploration and exoplanet research.

What functionality will the database provide?

Users will be able to query and retrieve detailed information about exoplanets, stars, galaxies, researchers, publications, and space missions and space agencies through a well designed UI. The system will allow researchers to conduct complex searches based on criteria such as exoplanet characteristics, star properties, and researcher affiliations. Users can also contribute to the database, expanding its content.

Description of the application platform:

The database management system that we're planning to use is Oracle.

The tech stack we're planning to use is PHP for backend, since it's very suitable for dealing with databases, and HTML and CSS for frontend since we're comfortable using it. However, we may switch to a different tech stack later.

Additional Comments:

Instead of having a weak entity, we're choosing to put an additional ISA since it's more suitable for our model.

ER Diagram:

