

CPSC 304 Project Cover Page

Milestone #: 1

Date: Jul 14, 2025

Group Number: 1

Name	Student Number	CS Alias (Userid)	Preferred E-mail Address
Piyusha Satija	39217971	psatij01	piyushasatija9@gmail.com
Eason Feng	87333597	fgy1223	fengguoyi1223@gmail.com
Avireet Uppal	45588489	auppal08	auppal73@gmail.com

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 Description

What is the domain of the application? Describe it.

The domain of our application is space exploration and managing space missions. It focuses on planning and recording space missions, the agencies conducting these missions and launches, as well as the managing of astronauts, spacecrafts, celestial bodies, and other equipment.

What aspects of the domain are modeled by the database? (what your project is trying to address and how it fits within the domain)?

The database models the operations of space missions including tracking astronauts, assignment of missions by various agencies, spacecraft and rocket use, and the equipment carried and operated during missions. It models where missions are launched, which celestial bodies are targeted, and the training programs astronauts take part in. It could be used by agencies like NASA to plan various missions by assigning astronauts, selecting equipment, and recording the details of the mission while it is ongoing and after it terminates. It can also be used by astronomy-fanatics to research historical/current missions!

What functionality will the database provide (what kinds of things will people using the database be able to do)?

The database will allow users to track and manage space missions, astronaut assignments, spacecraft usage, equipment logistics, and training history. Users will be able to assign astronauts to missions, target celestial bodies, log mission details (such as events, problems, updates, etc.), and determine which spacecraft and equipment were used. The system will also support training program management, allowing users to record which astronauts have completed specific training modules.

Description of the application platform.

We plan to use Oracle for our database. As for our expected application technology stack, we will be using Java.

Primary keys: underlined and bolded
Partial keys: underlined

piyusha satija

