

CPSC 304 Project Cover Page

Milestone #: 1

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Group Number: 11

Name	Student Number	CS Alias (UserID)	Preferred E-mail Address
Kyle Rich	36316933	h7w2nb	kyledvrich@gmail.com
Eric Liu	95724787	p3v2b	liu.eric103@gmail.com
Anisha Gill	27909993	r4h0d	gill.anisha@outlook.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.

Answers in blue

2. A brief project description answering these questions:

A) What is the domain of the application? Describe it.

Extreme sports management, particularly for managing Formula 1 Racing.

Formula 1 is the highest professional racing league, with only 10 active teams at any given time, 20 drivers, and around 21 races per year.

B) What aspects of the domain are modeled by the database?

Our database aims to capture all the information necessary for the Federation Internationale de l'Automobile (FIA) – the Formula 1 league – to collect and reference data from current or previous seasons. This includes everything, from drivers, teams, engineers, managers, races, grand prix, circuits, and so on – anything the FIA could possibly need to manage the sport.

3. Database specifications: (3-5 sentences)

A) What functionality will the database provide?

In general, database users should be able to do anything they need to effectively manage Formula 1. Some examples include:

- Being able to add seasons and races as they happen
- Being able to add circuits and grand prix if more are created
- Being able to change certain entity attributes if they become outdated, such as people's names
- Being able to easily query for current and past data
- Being able to add team members as well as teams, as they happen in real life
- Delete functionality will also be provided, but will be primarily used for mistakes or improper data. As this database is meant to capture historical data (which shouldn't be deleted), as well as current.

4. Description of the application platform: (2-3 sentences)

A) What platform and technology stack will your project use?

PERN stack, primarily written in TypeScript

- P**ostgreSQL as our DBMS
- E**xpress as our web application framework
- R**ead (or similar) for our frontend
- N**ode for our backend

