University of British Columbia, Vancouver
Department of Computer Science

CPSC 304 Project Cover Page

Milestone #: ___1_____

Date: _May 31, 2023 _____

Group Number: __11_____

Name	Student Number	CS Alias (Userid)	Preferred E-mail Address
Carson Lu	37798238	r3y3a	carson_lu@outlook.com
Jerry Fan	90420811	j0d7s	jerryxjfan@hotmail.com
Shekinah Titus	38809083	p5y2b	shekinahtitus7@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

A brief project description answering these questions:

a. What is the domain of the application? Describe it.

The domain of the application is a database for various online services (both those that require and don't require subscriptions) and the focus is going to be on the data about the online services as well as the users of these online services.

b. What aspects of the domain are modelled by the database?

The aspects of the domain that are modelled by the database are as follows (NOTE: not all attributes are specified here, refer to the ER diagram below to see them all):
Each online service must be at least one of the three types of online services being for music, movies, or game service. Each of these online services requires some type of media (ie. songs, movies, or video games) and each of these media requires at least one (or at most one for movies) artist/movie company/developer. The media only contains basic information, such as the name of the company. The online service also contains data about version types, monthly users, and monthly downloads. Also, some online services require subscriptions to access them. Users can pay for subscriptions to access certain services. Users can provide a review for the online service and, in order to access the service, users must use a device. The user device contains information such as the brand and model number. Lastly, each device is either a smartphone or a computer.

3. Database specifications: (3-5 sentences)

a. What functionality will the database provide?

This database will provide functionality for inserting, updating, and deleting information about customers, reviews, devices, subscription services, and their corresponding media. This database will make it easier for advertisers and product designers to understand usage details of their service by accessing data such as the demographic of users, devices being used, what titles are most popular, etc..

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

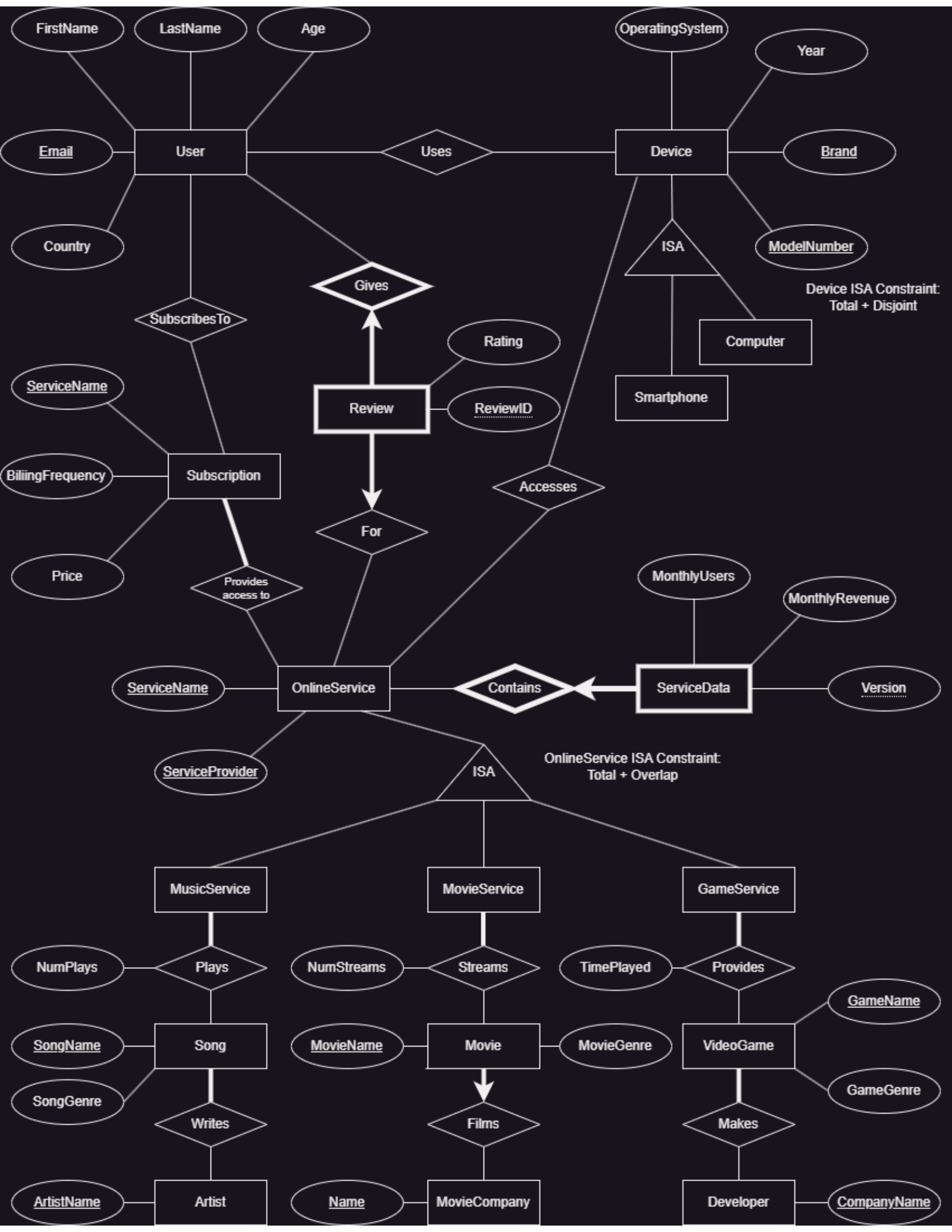
a. What platform will your project use (PHP/JDBC/etc.)?

The platform we will be using for our project will be PHP and JDBC

b. What is your expected application technology stack (i.e., any other things that you're using other than whether you're using PHP or JDBC)? Note that for DBMSs, we will only provide support for using the department's installation of Oracle. You are on your own for anything else.

Our expected application technology stack will likely just be using PHP and JDBC and we'll be following the department's installation of Oracle.

5. An ER diagram for the database that your application will use.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OnlineService ISA Constraint:
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MusicService
MovieService
GameService
NumPlays
Plays
NumStreams
Streams
TimePlayed
Provides
GameName
SongName
Song
MovieName
Movie
MovieGenre
VideoGame
SongGenre
GameGenre
Writes
Films
Makes
ArtistName
Artist
Name
MovieCompany
Developer
CompanyName

6. Your E/R diagram should adhere to the expectations listed above.

7. Other comments, as appropriate, to explain your project.