

Team Name: Dolphins (group #: 022-1)

Team Meeting Time: Sundays 3:00-5:00 pm

Team Meeting Link: <https://cuboulder.zoom.us/j/4508042408>

[Github Repository Link](#)

Team Meeting with TA Time: Tuesday 5:05-5:20pm

Team Meeting with TA Link: <https://cuboulder.zoom.us/j/97473414998> (Password : 994524)

Team JIRA Board Link: <https://niketh49.atlassian.net/jira/software/projects/C3S01/boards/1>

Ross Panning, Jack LeGrone, Niketh Gorla, Spencer Nikolaeff, Xizhe (Caesar) Song

Revised List of Features	This is an updated list of your FEATURES inventory (from Milestone 2). It is normal for feature lists to change during the course of a project. Some features may have been dropped.	<ol style="list-style-type: none">1. Account Creation & Security<ol style="list-style-type: none">a. Username and Password protection2. Personal Games Library<ol style="list-style-type: none">a. List of Games, formatted with what device you play them onb. Ability to add, remove, edit game listingsc. What Type of Software you use (keyboard, mouse, PC specs, controllers)
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	<p>Some features may have been added.</p> <p>This revised features list should reflect these changes.</p> <p>This revised features list should identify the PRIORITY order of how the features will be developed.</p>	<p>3. In Depth Games Library</p> <ul style="list-style-type: none"> a. Time played b. Ranking / Specialty in Game c. Achievements <p>4. Further Integration</p> <ul style="list-style-type: none"> a. Link to discords b. Link to Game Wikis c. Recommended Games d. Games Wish List
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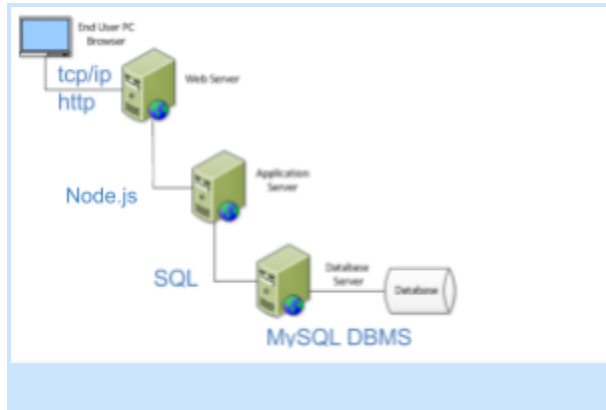
Architecture Diagram

This deliverable is a picture or diagram that shows each architectural component of your application.

The diagram should identify how your application's front-end, integration layer, and backend processes will be hosted.

This diagram should identify the flow of data from one layer to another.

This diagram should identify the



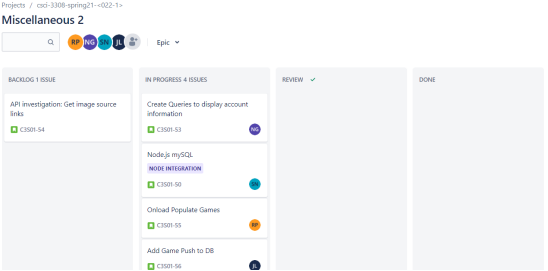
	<p>protocols being used to/from each component layer.</p>	
	<p>at this point your architecture is supposed to be final and you are expected to continue development for your project in the architecture specified here. You may deviate from it if required but we need a specific diagram at this point detailing work and data flow across the different</p>	

	layers of your application.	
Front End design	<p>This deliverable is a series of diagrams that show the basic design of your application's front end.</p> <p>Typically, this design is most easily presented in terms of a WIREFRAME.</p> <p>This may be hand drawn, or created using a web page wireframe drawing tool.</p> <p>The front end design should identify each major</p>	Diagram down below

	feature of the application's front end	
Web Service Design	If your application is using Web Services via APIs, this deliverable should list the Web Service being used along with a description of the Web Service's API including the data being passed to and received from the API.	<p>We plan to use IGDB.com to source video game image urls to store in the mysql database. To do this, we will pass the game name to the API, then request the game id of the game, then use this ID to fetch the url of the image of the cover. The url will then be pushed to the database.</p>

<p>Database design</p>	<p>This deliverable provides a summary design of your application's database.</p> <p>The design document should identify each type of data being stored in your database.</p> <p>This may be documented in terms of a schema definition, showing data entities ("files") and attributes ("fields")</p> <p>This may be documented via an Entity Relationship</p>	<p>Database Software: MySQL</p> <p>We have 6 relations in our database. The first one is User. This relation stores information about users who use Librario including username, password, recovery question, etc. The next table is the games relation. This table stores information about each game in our database. The user and the game relations are related by many to many, so we are using the Usergame relation to resolve this conflict.(Usergame is identifying). The usergame relation stores information specific to the user, about a specific game. For example: the individual's personal review of the game. The Usergame table is related in a one to many identifying relationship with Achievements. This is the table that stores the specific information the users achievements in that specific game.</p>
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	<p>Diagram showing database tables and columns.</p> <p>The document should identify the specific DBMS technology being used to store your application data (PostgreSQL, MySQL, Firebase, etc.)</p>	<p>Finally there is the tags relation, this stores information describing the game. A game can have many tags, and a tag can be used to describe many games. Hence, the game tags relation was used to resolve this many to many.</p>
Individual Contributions	<ul style="list-style-type: none"> • This deliverable includes a couple of lines about each team member's contribution towards the project. 	<p>Ross Panning</p> <ul style="list-style-type: none"> - Updated, and refined database - Created local host of database using node.js - https://github.com/CSCI-3308-CU-Boulder/3308SP21_section022_1/commit/6d5130d51de5baa94600bb5cd6cb6c966a943b47#diff-1e23f7

	<ul style="list-style-type: none">• Include a link to the latest commit made by each team member on the GitHub repository.• Share a screenshot of the project management board being maintained for this project indicating the status of the tasks at hand.	<p>f59d2516cab4636978de01286468ed0209337aee8cbb5eaa0817ecbb59</p> <p>Jack Legrone: Latest Commit</p> <ul style="list-style-type: none">- JS add game methods- Converted HTML files to ejs <p>Spencer Nikolaeff</p> <ul style="list-style-type: none">- Node.js MySQL connection- Node.js MySQL queries- File management- https://github.com/CSCI-3308-CU-Boulder/3308SP21_section022_1/commit/315baef3d78a415fad91a46d437b2c43d86d8954 <p>Niketh Gorla</p> <p>Xizhe Song</p> <ul style="list-style-type: none">- AFK 
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Challenge s	<ul style="list-style-type: none"> Identify at least 3 challenges and/or risks to your project at this point. What is your backup/risk mitigation plan incase you are unable to resolve the challenge(s)? 	<ol style="list-style-type: none"> Adding base games list to application <ol style="list-style-type: none"> We will have to manually add games Group member attendance <ol style="list-style-type: none"> We will lessen our specialization to work together on broad topics File Uploads for Images, Game Data <ol style="list-style-type: none"> We will enact a placeholder or set data
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To Do:

Pushing and Pulling from the Server

Add link to images

Create Queries from front end

Revised List of Features

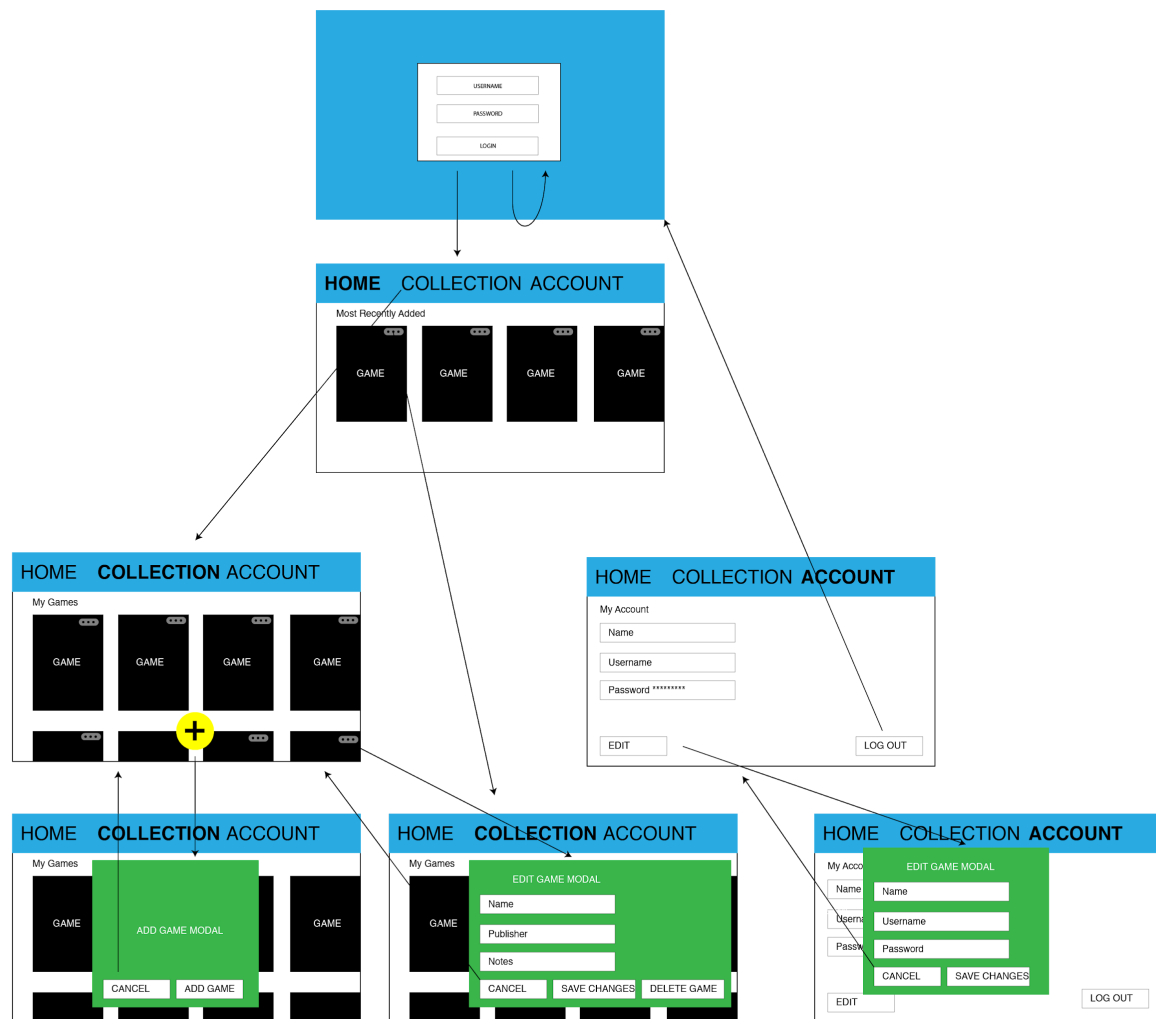
Milestone 2 Features:

<https://docs.google.com/document/d/1ix0DDU8qErrd5WeL-dnn3oCQOUmNPf0Z4GCM1-FvGWc/edit>

Updated List of Features:

Architecture Design

Front End Design



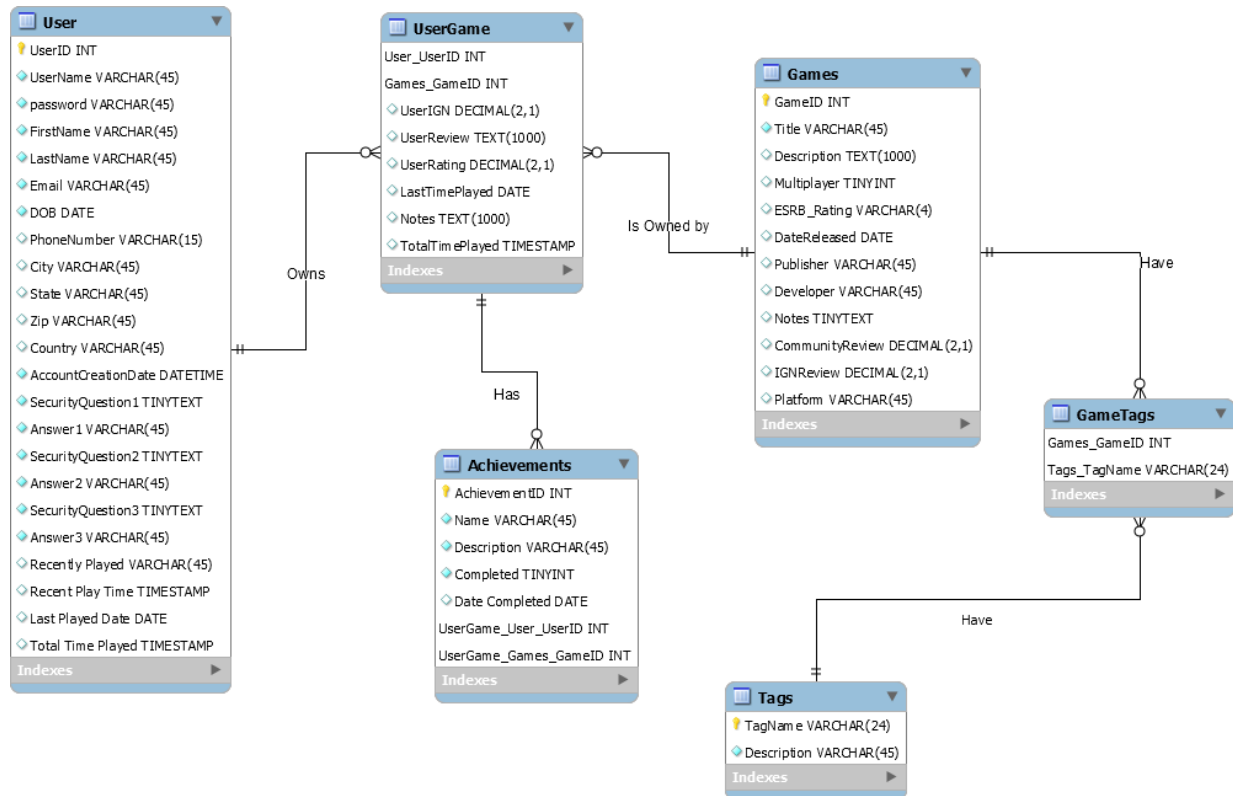
Web Service Design

We plan to use IGDB.com to source video game image urls to store in the mysql database. To do this, we will pass the game name to the API, then request the game id of the game, then use this ID to fetch the url of the image of the cover. The url will then be pushed to the database.

Database Design

Individual Contributions

Challenges



```
CREATE TABLE IF NOT EXISTS `mydb`.`User` (  
  `UserID` INT NOT NULL AUTO_INCREMENT,  
  `UserName` VARCHAR(45) NOT NULL,  
  `password` VARCHAR(45) NOT NULL,  
  `FirstName` VARCHAR(45) NOT NULL,  
  `LastName` VARCHAR(45) NOT NULL,  
  `Email` VARCHAR(45) NOT NULL,  
  `DOB` DATE NOT NULL,  
  `PhoneNumber` VARCHAR(15) NULL,  
  `City` VARCHAR(45) NULL,  
  `State` VARCHAR(45) NULL,  
  `Zip` VARCHAR(45) NULL,  
  `Country` VARCHAR(45) NULL,  
  `AccountCreationDate` DATETIME NOT NULL,  
  `SecurityQuestion1` TINYTEXT NOT NULL,  
  `Answer1` VARCHAR(45) NOT NULL,  
  `SecurityQuestion2` TINYTEXT NOT NULL,  
  `Answer2` VARCHAR(45) NOT NULL,  
  `SecurityQuestion3` TINYTEXT NOT NULL,  
  `Answer3` VARCHAR(45) NOT NULL,  
  `Recently Played` VARCHAR(45) NULL,  
  `Recent Play Time` TIMESTAMP NULL,  
  `Last Played Date` DATE NULL,  
  `Total Time Played` TIMESTAMP NULL,  
  PRIMARY KEY (`UserID`),  
  UNIQUE INDEX `UserName_UNIQUE` (`UserName` ASC) VISIBLE,  
  UNIQUE INDEX `UserID_UNIQUE` (`UserID` ASC) VISIBLE)  
ENGINE = InnoDB;
```

```

CREATE TABLE IF NOT EXISTS `mydb`.`Games` (
  `GameID` INT NOT NULL AUTO_INCREMENT,
  `Title` VARCHAR(45) NOT NULL,
  `Description` TEXT(1000) NULL,
  `Multiplayer` TINYINT NULL,
  `ESRB_Rating` VARCHAR(4) NULL,
  `DateReleased` DATE NULL,
  `Publisher` VARCHAR(45) NULL,
  `Link` VARCHAR(45) NULL,
  `Developer` VARCHAR(45) NULL,
  `Notes` TINYTEXT NULL,
  `CommunityReview` DECIMAL(2,1) NULL,
  `IGNReview` DECIMAL(2,1) NULL,
  `Platform` VARCHAR(45) NULL,
  PRIMARY KEY (`GameID`))
ENGINE = InnoDB;

```

```

CREATE TABLE IF NOT EXISTS `mydb`.`UserGame` (
  `User_UserID` INT NOT NULL,
  `Games_GameID` INT NOT NULL,
  `UserIGN` DECIMAL(2,1) NULL,
  `UserReview` TEXT(1000) NULL,
  `UserRating` DECIMAL(2,1) NULL,
  `LastTimePlayed` DATE NULL,
  `Notes` TEXT(1000) NULL,
  `TotalTimePlayed` TIMESTAMP NULL,
  PRIMARY KEY (`User_UserID`, `Games_GameID`),
  INDEX `fk_UserGame_User_idx` (`User_UserID` ASC) VISIBLE,
  INDEX `fk_UserGame_Games1_idx` (`Games_GameID` ASC) VISIBLE,
  CONSTRAINT `fk_UserGame_User`
    FOREIGN KEY (`User_UserID`)
      REFERENCES `mydb`.`User` (`UserID`)
      ON DELETE NO ACTION
      ON UPDATE NO ACTION,
  CONSTRAINT `fk_UserGame_Games1`
    FOREIGN KEY (`Games_GameID`)
      REFERENCES `mydb`.`Games` (`GameID`)
      ON DELETE CASCADE
      ON UPDATE CASCADE)
ENGINE = InnoDB;

```

```
CREATE TABLE IF NOT EXISTS `mydb`.`Tags` (
  `TagName` VARCHAR(24) NOT NULL,
  `Description` VARCHAR(45) NOT NULL,
  PRIMARY KEY (`TagName`),
  UNIQUE INDEX `Tags_UNIQUE` (`TagName` ASC) VISIBLE)
ENGINE = InnoDB;
```

```
CREATE TABLE IF NOT EXISTS `mydb`.`GameTags` (
  `Games_GameID` INT NOT NULL,
  `Tags_TagName` VARCHAR(24) NOT NULL,
  PRIMARY KEY (`Games_GameID`, `Tags_TagName`),
  INDEX `fk_GameTags_Games1_idx` (`Games_GameID` ASC) VISIBLE,
  INDEX `fk_GameTags_Tags1_idx` (`Tags_TagName` ASC) VISIBLE,
  CONSTRAINT `fk_GameTags_Games1`
    FOREIGN KEY (`Games_GameID`)
      REFERENCES `mydb`.`Games` (`GameID`)
      ON DELETE NO ACTION
      ON UPDATE NO ACTION,
  CONSTRAINT `fk_GameTags_Tags1`
    FOREIGN KEY (`Tags_TagName`)
      REFERENCES `mydb`.`Tags` (`TagName`)
      ON DELETE CASCADE
      ON UPDATE CASCADE)
ENGINE = InnoDB;
```

```
CREATE TABLE IF NOT EXISTS `mydb`.`Achievements` (
  `AchievementID` INT NOT NULL,
  `Name` VARCHAR(45) NOT NULL,
  `Description` VARCHAR(45) NOT NULL,
  `Completed` TINYINT NOT NULL,
  `Date Completed` DATE NULL,
  `UserGame_User_UserID` INT NOT NULL,
  `UserGame_Games_GameID` INT NOT NULL,
  PRIMARY KEY (`AchievementID`, `UserGame_User_UserID`, `UserGame_Games_GameID`),
  INDEX `fk_Achievements_UserGame1_idx` (`UserGame_User_UserID` ASC, `UserGame_Games_GameID` ASC) VISIBLE,
  CONSTRAINT `fk_Achievements_UserGame1`
    FOREIGN KEY (`UserGame_User_UserID`, `UserGame_Games_GameID`)
      REFERENCES `mydb`.`UserGame` (`User_UserID`, `Games_GameID`)
      ON DELETE CASCADE
      ON UPDATE CASCADE)
ENGINE = InnoDB;
```