Project Assignment #0 - GROUP 7

1) Group informations

- **Group name**: Group07 - Strongest Tecon
- **Members**:

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2) Project proposal

2.1) Introduction

IADb will be an online database that has information about animes (title, released date, studio, characters, voice actors/actresses, etc). It allows registered users to add animes to their lists (planning, watching, favorite, dropped, etc), discuss and rate animes. The admins and studios can add animes to the site and manage the database. The website will probably have a recommendation system and fun quizzes for the users.

Why do we want to do this project even though there are some other web applications with similar features such as MyAnimeList or Anilist? Those sites focus on managing and getting news about animes, they do not have any great features that let users find under-the-radar animes that they would probably enjoy. For example, both of previously mentioned sites have a recommendation system that only gives similar animes to only one anime that are chosen by the users, that system doesn't recommend new animes based on hundreds, if not thousands of anime that are already rated by that user at all. Or the rating system is not reliable since a person who prefers action or gore anime has a tendency to rate romance anime lower than the average person or someone who is

really into romance anime. Because of these reasons, we want to give it a try to make some improvements and add a personal touch to an anime database website.

2.2) Target users and environment

2.2.1) Target users

- **Anime studios** who want to introduce and update their current and upcoming anime information to the audiences.
- **Anime viewers** (newbie or enthusiasts) who are interested in watching, reading or keeping track of upcoming updates and announcements for their anime/manga products of interest.

2.2.2) Environment

- **Environment**: Web Application
- **Hosting service for Web Application**: Azure App Service (Specification: 0.5 shared vCore for 60 minutes/day, 1GB RAM, 1GB of storage (**Free**)).
- **Hosting service for Database**: Azure SQL Database (Specifications: 100,000 vCore seconds of SQL database serverless usage per month with 32GB of storage (**Free**)).
- **Hosting service for resources (images)**: Azure Blob Storage (Type: Block Blob Storage, Performance: Standard, Storage Account Type: General Purpose V2, File Structure: Flat Namespace, Access tier: Hot, Redundancy: LRS (**Not Free**, approximately 1.24$/month for 10GB of storage, total of 300,000 write, read operations)).
- **Hosting service for messages (forum):** NoSQL in Azure Cosmos DB (Specification: 1000 request-units/second with 25GB storage (**Free**)).

2.3) Key features

General features:
- Searching for information about the anime they want to watch.
- Filtering anime titles by genres, date selection, etc.
- See top anime in the current week or month (statistics feature).

Specialized features (permissions) by roles listed in descended levels of administration:
- **Admin (Technically dev team):** They can manipulate the systems including what moderators can do and these following extras:

+ Add and remove accounts of every level of users below administrators.
+ Other omniscient features we have not discussed yet.
- **Moderator**: whitelisting, blacklisting, posts/comments/forum managing
- **Anime Studios' Staff:** posting and managing their own anime's information.
- **Registered Users:**
    + Managing their anime using lists such as planning list, watching list, dropped list and track progress (episodes) on anime which they're watching.
    + Commenting, participating in forums and other events.
    + Organizing, rating and discussing the series that they are interested in with other viewers in the forums.
    + Getting recommendations for new anime based on their activities on the sites.
    + Keeping track of upcoming updates and announcements for their anime products of interest (series, movies, etc..).
    + Statistics about each user's anime such as average rating by genre, author, etc.
    + Minigame: Waifle (Today's waifu guessing).
    + Donating money to support the dev team to maintain the server.

2.4) Teacher's requirements checklist

Requirement	Status
The project type is a web or mobile app following the client-server model	✅
The project type is a database management system	✅
The functional project requirements related to CRUD actions	✅
Listing / Search	✅
View item details	✅
The common users are guests, logged-in users, admins, moderators, customers, etc. - Update an existing item / existing items	✅

| - Delete an item / multiple items
 - Calculating / Reporting
 - Add a new item / multiple items | |