The brief

The scope of this project is to create a CRUD application with utilisation of supporting tools, methodologies and technologies that encapsulate all core modules covered during training

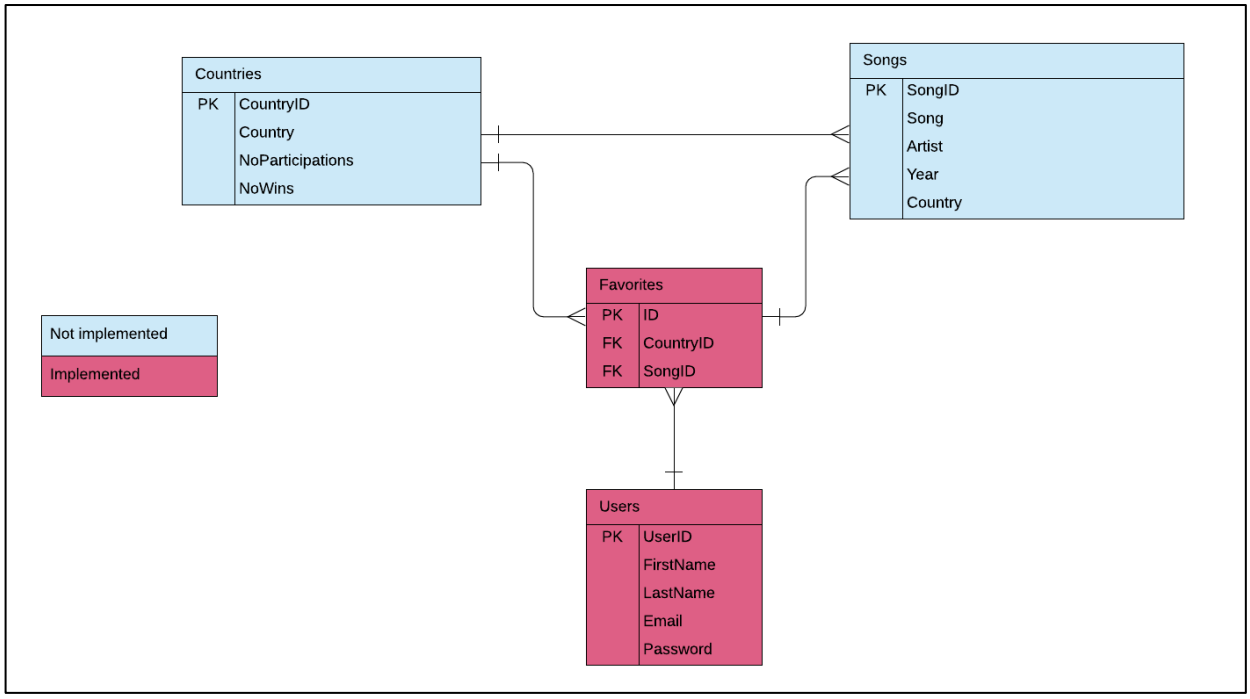
Solution

Create an application where users can log in and create a post with their favourite entry of the Eurovision Song Contest. The users should be able to read other user's favourites, update and delete their posts

Architecture

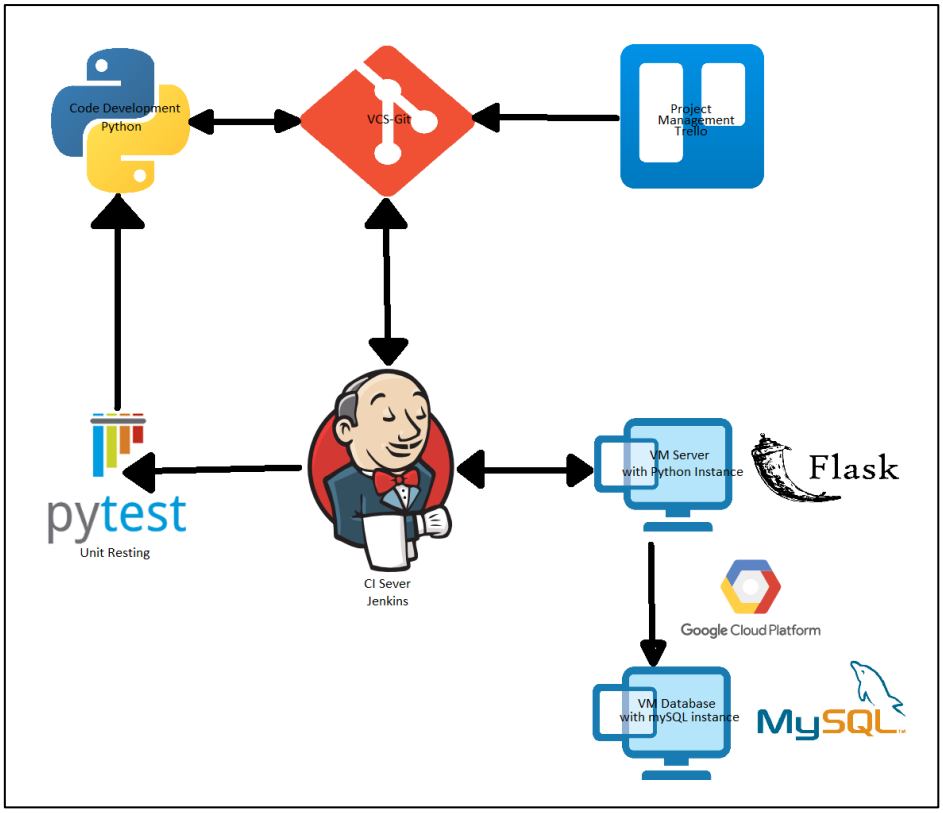
- ✓ *ERD*

The initial plan for this project was to have four tables. Idially the users should be able to create their list of favourites by accessing the data of two other tables (Countries and Songs). The user would just choose their favourite by a given list. However due to time limitations and technical issues I was only able to create two tables (Favourites and User) the user in this case needs to fill in the information manually.



- ✓ *Deployment*

The following diagram shows the continuous integration pipeline of the application and it is including all technologies that were used for each stage of implementing this project. In simple words: I produce the code for this project using Python on a VM (although this could happen with my local machine as well) and I push it to GitHub. Jenkins server is triggering every time there is an update GitHub via a webhook. After that test are automatically run and reports are being produced.



Testing

Pytest unit test has been implement and running but not fully functional. Jenkins Pipeline also is implemented and running the testing but the results are fail.

Technologies:

- Trello-Project Tracking
- Google Cloud Platform-Live environment and VMs
- mySQL Instance on VCP - Database
- Python - Programming
- Flask - Web microframework
- Jenkins - CI Server
- Git-Version Control System
- Pytest - Unit Testing

Improvements

There are a lot of things that could be improved. For starters find a way to fix the database issue. By managing to create the database the app should be start working. As a result, users can register and log in the database. This may lead to more errors that will need more debugging. The next step should be the implementation of more tests that will include all functions to assure not only that its working but also to ensure the quality of the service. After those aspects are met the project will be at the right stage to start improving. In this stage the CRUD functionality will be assured that working and can move to improvements. The improvement of UI not only I will make the app more pleasing for the users but also much easier to use. In order

to achieve that I would use CSS. Last but not at least I would create the two more tables in order to improve the functionality of the project. More features should also be implemented to keep users interested.

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