

Final Project

Description:

My final project is going to be related to an important event that is going to be held in Qatar in 2022. The event is the World Cup Finals. As we know many people from all around the world, and those football fans would love to have something that would make the process of choosing the matches easier for them, especially that the price of the ticket will not be cheap so buying a ticket for an undesired match will not be the best thing to do.

Moreover, fans will come from all around the globe and they won't be familiar with the country, so my app will also help them organize their schedule, it will give them many possible options of things or activities they can do during their free time which is going to be before, after the matches and in the matches half time break sometimes.

The complex part of my project is going to be finding the best choice of matches and activities for the user depending on the preferences that the user will provide when he first opens the application. Also, my algorithm will depend on timings and locations of the stadiums and other entertainment places. The final product that the user will get is a complete schedule of his stay in the period of the first round (group stages) in the competition, and the higher rounds will depend on live results so I won't be able to do it until then.

Libraries and features:

I will use the Tkinter Library for GUI, time library, datetime, calendar, random and statistics libraries. For the features, the application will provide the user with the best choice of matches to go to and a schedule of the entire day with precise date and time. I will also provide the user with a description of the landmarks and entertainment places in Qatar. Also, the user will have the ability of choosing the activities he wants to do in his free time out of some options that will be determined by the algorithm built in the application, and also the ability of fixing his schedule.

User Interface:

The user will first be asked to enter some information of his personal preferences such as favorite team, preferred time to sleep and wake up and preferred activities and food. Then I will use that information to find the best matches and activities to fill his schedule. Then the user will go to

the main window which will show his schedule, the schedule will contain time slots and the user will be able to click on those slots to get options of what to do and to adjust his schedule. The user will also be able to show the competition's table and information about the teams and players. Moreover, the user will be able to show information about landmarks in Qatar. The interface will also show current time and date.

Set Of Features:

The application will be able to get the information from the user and organize the matches schedule by the 12th of November. And choosing the options of things to do in the free time slots and fixing the schedule will be done by 23rd of November.