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Target ship date: May 22

Project Description

This project is a web app that:

- Compiles and displays statistics from various League of Legends matches

Dataset

<https://www.kaggle.com/datasets/vokainodra/league-of-legends-high-elo-match-data-patch-139>

Program components

__init__.py: Flask app, renders templates

db.py: functions for creating, adding, modifying, and retrieving items from DB.

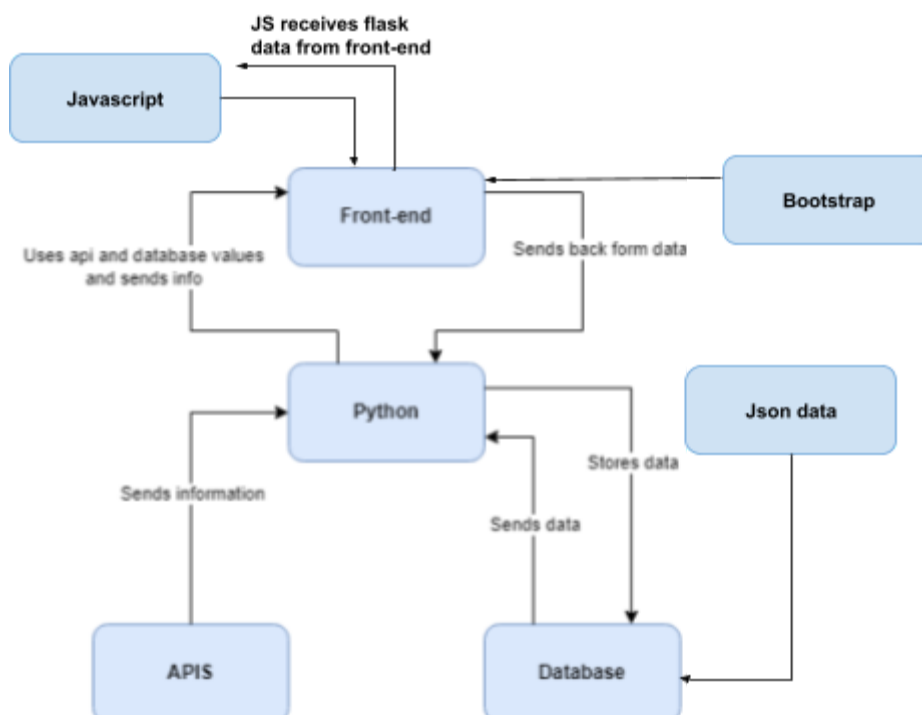
api.py: functions to gather riot api data and parse it into a json

index.html: starting page with search bar to find all the champions and also a button to find a random match

match.html: displays random league match from our database so you can explore stuff of the match, can look at individual players

champ.html: displays average info about the data and has graphs, compiled using db

Component Map



Database organization

Matches table: a table containing the general info of all the matches:

matchId TEXT, GAME_DURATION INTEGER, WIN INTEGER, BLUE_CHAMP_KILLS INTEGER, BLUE_BARON_KILLS INTEGER, BLUE_DRAGON_KILLS INTEGER, BLUE_INHIB_KILLS INTEGER, BLUE_HERALD_KILLS INTEGER, BLUE_TOWER_KILLS INTEGER, RED_CHAMP_KILLS, RED_BARON_KILLS INTEGER, RED_DRAGON_KILLS INTEGER, RED_INHIB_KILLS INTEGER, RED_HERALD_KILLS INTEGER, RED_TOWER_KILLS INTEGER

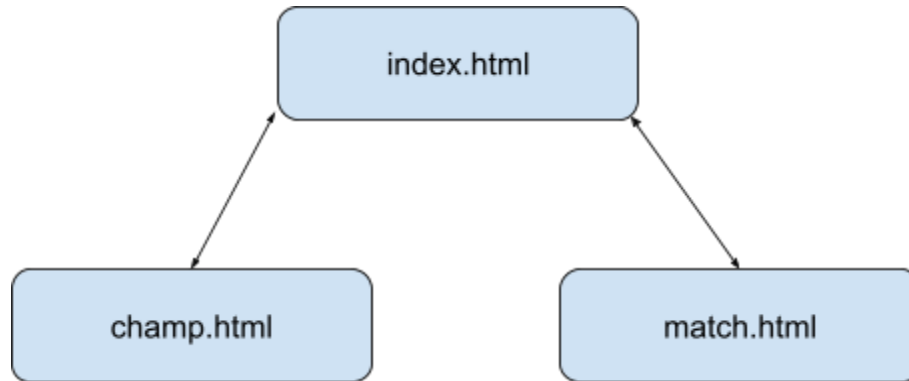
Participants table: a table containing all the info of each participant in each match, columns are:

matchId TEXT,allInPings INT,assistMePings INT,assists INT,baitPings INT,baronKills INT,basicPings INT,bountyLevel INT,challenges TEXT, champExperience INT,champLevel INT,championId INT,championName TEXT,championTransform INT,commandPings INT,consumablesPurchased INT, damageDealtToBuildings INT,damageDealtToObjectives INT,damageDealtToTurrets INT,damageSelfMitigated INT,dangerPings INT,deaths INT,detectorWardsPlaced INT,doubleKills INT,dragonKills INT,eligibleForProgression INT,enemyMissingPings INT,enemyVisionPings INT,firstBloodAssist INT,firstBloodKill INT,firstTowerAssist INT,firstTowerKill INT,gameEndedInEarlySurrender INT,gameEndedInSurrender INT,getBackPings INT,goldEarned INT,goldSpent INT,holdPings INT,individualPosition TEXT,inhibitorKills INT,inhibitorTakedowns INT,inhibitorsLost INT,item0 INT,item1 INT,item2 INT,item3 INT,item4 INT,item5 INT,item6 INT,itemsPurchased INT,killingSprees INT,kills INT,lane TEXT,largestCriticalStrike INT,largestKillingSpree INT,largestMultiKill INT,longestTimeSpentLiving INT,magicDamageDealt INT,magicDamageDealtToChampions INT,magicDamageTaken INT,needVisionPings INT,neutralMinionsKilled INT,nexusKills INT,nexusLost INT,nexusTakedowns INT,objectivesStolen INT,objectivesStolenAssists INT,onMyWayPings INT,participantId INT,pentaKills INT,perks BLOB,physicalDamageDealt INT,physicalDamageDealtToChampions INT,physicalDamageTaken INT,profileIcon INT,pushPings INT,puuid TEXT,quadraKills INT,riotIdName TEXT,riotIdTagline TEXT,role TEXT,sightWardsBoughtInGame INT,spell1Casts INT,spell2Casts INT,spell3Casts INT,spell4Casts INT,summoner1Casts INT,summoner1Id INT,summoner2Casts INT,summoner2Id INT,summonerId TEXT,summonerLevel INT,summonerName TEXT,teamEarlySurrendered INT,teamId INT,teamPosition TEXT,timeCCingOthers INT,timePlayed INT,totalAllyJungleMinionsKilled INT,totalDamageDealt INT,totalDamageDealtToChampions INT,totalDamageShieldedOnTeammates INT,totalDamageTaken INT,totalEnemyJungleMinionsKilled INT,totalHeal INT,totalHealsOnTeammates INT,totalMinionsKilled INT,totalTimeCCDealt INT,totalTimeSpentDead INT,totalUnitsHealed INT,tripleKills INT,trueDamageDealt INT,trueDamageDealtToChampions INT,trueDamageTaken INT,turretKills INT,turretTakedowns INT,turretsLost INT,unrealKills INT,visionClearedPings INT,visionScore INT,visionWardsBoughtInGame INT,wardsKilled INT,wardsPlaced INT,win INT

Champions table: a table containing all the average information of each champion, got this data from gathering from participants table:

championName TEXT, role TEXT, winRate INT, kills INT, deaths INT, assists INT, commonSpell1 INT, commonSpell2 INT, item0 INT,item1 INT, item2 INT, item3 INT, item4 INT, item5 INT, item6 INT, gameDuration INT, cs INT, dmgTaken INT, dmgDealt INT, runes BLOB

Site map



Task distribution

Donald Bi - make the database
David Deng - html + bootstrap
Jacob Guo - css + js
Yat Long Chan - flask application

APIs

RIOT api to gather our own most recent data to ensure the utmost accuracy in our analysis

FEF

Bootstrap because several of our group members have yet to experience Bootstrap before, so we will try to incorporate it into our project to learn it.