

Development handbook

Structure

- Database
 - DAO
 - CourseDao: Data Access Object for courses
 - DiscDao: Data Access Object for discs (possible future feature, not in use yet)
 - HoleDao: Data Access Object for course holes
 - PlayerDao: Data Access Object for players
 - RoundDao: DataAccessObject for played round
 - Entities
 - Course: includes id, name, amount of holes and course par value
 - Disc: not in use yet, possible future feature, stats part of the app could have a catalogue of discs with all the necessary info
 - Hole: includes id, holes number, course the hole belongs to, hole par, length, and average par from rounds
 - PlayedHole: possible future feature, could include stats on how a certain player had played a hole, how many throws and which discs used
 - Player: just id and name, could have also stats like amount of rounds played
 - Round: includes id, name of the course played, player, result as in string with all hole numbers back to back (eg. 234513223) and time round ended
 - CourseWithRounds and RoundWithPlayers are not used but don't want to delete them and mess with the database
 - PlayerDatabase is the constructor for the database that combines the entities and DAO:s
- ui
 - History
 - DashboardFragment: Fragment that shows round history (misleading name). Can filter by course and player
 - HistoryRoundListAdapter, ResultHoleListAdapter and ResultPlayerListAdapter are adapters for RecyclerView component, which is necessary to make lists dynamic
 - Home
 - HomeFragment: first fragment to show up on startup, used to start new round with players chosen from list. Also possible to add new players. At the moment the list of current chosen players list doesn't seemingly reset after round is complete and you return to the home screen, but the names will be replaced after you choose new player for next round
 - PlayerListAdapter and RoundPlayerListAdapter are RecyclerView adapters that show list of players in different context with different functional buttons
 - ResultFragment: Fragment that shows up after you complete round, showing results of players
 - RoundFragment: Fragment used to play through the round. Shows hole that is being played and also list of players with buttons to add or remove score
 - Stats
 - CourseStats: Fragment that shows course stats including all the holes with images(except Kirkkopuisto, no images were available yet) of the layout and average scores from past rounds.

- NotificationFragment: Fragment for stats, includes list of players and courses (misleading name)
- PlayerStatsFragment: Shows stats of the chosen player. Amount of pars, birdies, bogeys(score +1 and more), eagles, aces and amount of rounds
- StatsCourseListAdapter and StatsPlayerListAdapter are simple RecyclerView adapters to show all players and courses
- MainActivity: Houses the other fragments and includes methods for database actions and other useful methods.
- res-folder includes all the layout files and drawables for the holes and also navigation file mobile_navigation.xml that is used to path the fragments correctly

Future development and possible features

Possible future features could be the disc database, precise information on hole played (throws, discs, player) and ability to add more courses. The last one is a bit hard to implement since its tiresome to manually add courses through the app, since all the holes have to be manually added with all the needed information including images of the holes and usually courses are 18 holes long. Could be easier if the courses were added from database straight from some database in the internet, but I was unable to find working sources. BUG: Top action bar “previous-arrow” does not work. BUG: When choosing course for round, after changing to another tab and back, the list of courses does not resize immediately, only after press.