

Diagrams

Component Diagram



Figure 1: Component diagram

Class Diagram

Activity Diagram

UI Mockups

REST Interfaces

Endpoints

/games endpoint

Mapping	Method	Parameter	Parameter Type	Status Code	Response	Description
/games	POST	playerIDs: String[]	Body	...	...	initiate a new game
/games/{gameID}	GET	-	Query	...	...	retrieve all information of a game
/games/{gameID}	PUT	matchesPlayed: int, ...	Body	...	...	change state of a running game

/matches endpoint

Mapping	Method	Parameter	Parameter Type	Status Code	Response	Description
/matches	POST	gameID: String	Body	...	numberOfRounds: int	initiate a new match
/matches/{matchID}	PUT	roundsPlayed: int, ...	Body	...	...	change state of a running match

/cards endpoint

Mapping	Method	Parameter	Parameter Type	Status Code	Response	Description
/cards/distribute	GET	gameID: String, numberOfCards: int	Body	...	list of playerIDs + cards	get (distribute) cards to players in a game
/cards/draw	GET	playerID: String	Body	...	card	get (draw) one card to one player

Mapping	Method	Parameter	Parameter Type	Status Code	Response	Description
/cards/{gameID}	GET	gameID: String	Query	...	...	get a players current cards collection
/cards/{collectionID}	DELETE	cards: Card	Body	...	...	remove a card of cards collection
/cards/{collectionID}	PUT	cards: Card	Body	...	...	add a card to cards collection

/players endpoint

Mapping	Method	Parameter	Parameter Type	Status Code	Response	Description
/players	POST	playerName: String	Body	201409	Playerduplicate	create a new player
/players/{gameID}	GET	gameID: String	Query	200404	list of playersno such game or no players found	retrieve a list of players in a game
/players/{playerID}	GET	userID: long	Query	200404	playerplayer not found	retrieve a player by ID
/players/{playerID}	PUT	currentScore: int	Body	204404	player not found	change players score during game

/users endpoint

Mapping	Method	Parameter	Parameter Type	Status Code	Response	Description
/users	POST	userName: String, password: String	Body	...	...	register a new user
/players/{playerID}	GET	userID: long	Query	200404	playerplayer not found	retrieve a player by ID
/users/{userID}	GET	userID: String	Query	200404	useruser not found	retrieve a user by ID
/users/{username}	GET	userName: String	Query	200404	useruser not found	retrieve a user by their username
/users/{userID}	PUT	newGameScore: int	Body			

other endpoints

Mapping	Method	Parameter	Parameter Type	Status Code	Response	Description
/login/	POST	userName: String, password: String	Body	...	useruser not found	login with username and password
/logout/	POST	?	Body	?	?	terminate user session by logging out
/scoreboard/{gameID}	GET	gameID: String	Query	200404	list of scoresno such game or no players found	retrieve a list of scores

Detailed Interface Specification

Game

Interface Name	Fieldname	Type	Description
GamePostDTO	playersIDs	String[]	IDs of players that participate in that game
GameGetDTO	players	PlayersGetDTO[]	List of players that participate in that game

Match

CardsDTO

PlayerDTO

Interface Name	Fieldname	Type	Description
PlayerPostDTO	playersName	String	Name of the player (must be unique)
PlayerGetDTO	playerID	String	Players unique identifier
	gameID	String	Unique identifier of game, a player is (or was?) participating
	playersName	String	Name of the player
	score	int	Players score in a running game

UserDTO

LoginDTO

LogoutDTO

ScoreBoardDTO (?)