

Diagrams

Component Diagram



Figure 1: Component diagram

Class Diagram

Activity Diagram

UI Mockups

REST Interfaces

/games endpoint

Mapping	Method	Parameter	Parameter Type	Status Code	Response	Description
/games	POST	playerIDs: String[]	Body	...	...	initiate a new 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	GET	gameID: String, numberOfCards: int	Body	...	cards	get (distribute) cards to players
/cards/{playerID}	GET	gameID: String	Query	...	...	get a players current cards collection
/cards/{collectionID}	DELETE	cards: Card	Body	...	...	remove a card of cards collection

Mapping	Method	Parameter	Parameter Type	Status Code	Response	Description
/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 playerName	create a new player
/players/{gameID}	GET	gameID: String	Query	200404	list of usersno 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

Mapping	Method	Parameter	Parameter Type	Status Code	Response	Description
/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				

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 (not sure if we need this endpoint, or if we interact via players endpoint where we also get the score of a player?