<u>Otterssey</u>

- A turn-based board game where players connect towns to complete their given routes by buying available paths on the board
- Inspired by board game Ticket to Ride, with a Singapore twist

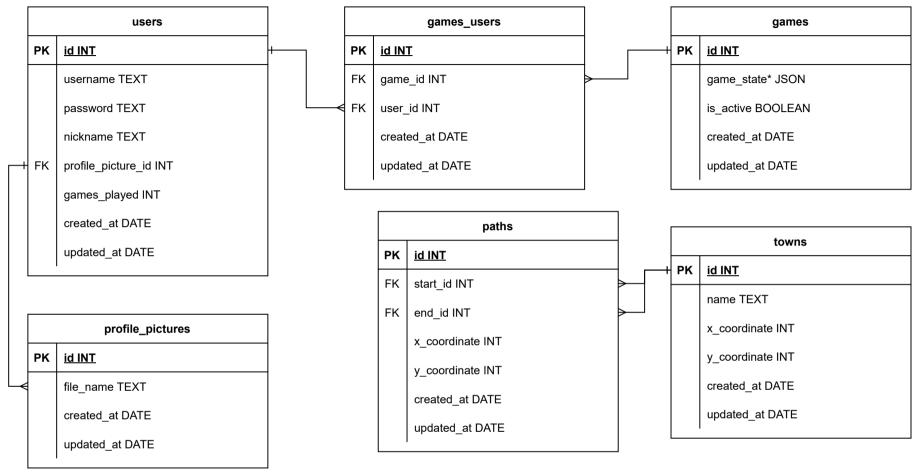
Routes (for base)

Route	Туре	Description	Page to render/redirect to
1	GET	Landing page with log in/sign up form, gameplay page and profile	render home.ejs
/login	POST	Check input fields and create log in cookies	redirect to /
/signup	POST	Create new user	redirect to /
/logout	DELETE	Clear logged in cookies	redirect to /
/profile/:id	GET	Check auth and id, show user profile	render profile.ejs
/profile/:id	PUT	Edit user profile	redirect to /profile/:id
/game	/game GET Gameplay page		render game.ejs
/games	POST	Create new game	
/games/:id/draw	PUT	Draw 2 item cards from deck into player hand	
/games/:id/buy/:path	PUT Buy path		

Features by Milestones

-		Prototype	Base	Comfortable	More Comfortable
# of Players		Single player, no log in	Single player, with log in and user	Multiplayer (up to 6), join with game ID	Same as comfortable; implement game lobby
Board		5 towns, paths have no specific	15 towns, paths of specific type	30 towns, paths of specific type and length	Cities vary slightly every game
Item Cards		3 types (10 of each type), draw from deck (2 each time)	5 types (30 of each type) + Joker (10), draw from deck (2 each time)	Same as base; can draw from deck OR from floor (first 4 cards of deck kept open)	-
Route Cards		Visually present but no function yet	Long route - >3 paths / Short route: 2-3 paths Show when route card is completed	Same as base; can draw more route cards if needed	-
Game Mechanics	Start	Starts with 2 route cards and 5 item cards	Starts with 3 route cards (2 short, 1 long) and 5 item cards	-	-
	Every turn	Draw 2 item cards OR Discard 3 item cards of the same type to buy a path	Draw 2 item cards OR Discard item cards of specific type to buy respective path	Same as base; Number of item cards discarded must tally with length of path to buy	Certain special paths need at least 1 joker to be discarded
	End	No end	Ends if all route cards are fulfilled	Tabulate points after game ends (after a player builds X number of paths)	-
Landing Page		-	Simple page with log in/sign up form, gameplay page and profile	(Work on CSS of landing page)	-
Other Features		-	-	In-game chat, Email confirmation at registration	Lobby chat, add friends

ERD (for base)



*game_state will include the following:

- mapBoard: instance of Map class (Graph data structure containing adjacency list of all towns on board)
- playerBoard: instance of Map class (Graph data structure with empty adjacency list, will be filled up as player buys paths)
- itemDeck: array of item card objects#
- shortRouteDeck: array of short route card objects^
- longRouteDeck: array of long route card objects^
- playerItems: array of item card objects#
- playerRoutes: array of short and long card objects^

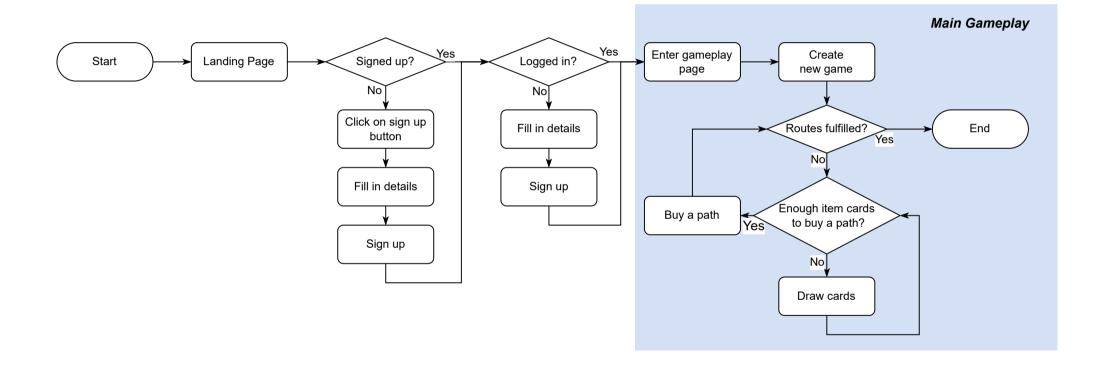
#Item card object:

- id: unique id of card
- type: colour of card/corresponding path

^Route card object:

- start: name of town where route starts
- end: name of town where route ends

User Flow Diagram



Wireframes

