

Game Development

Cause targeted

- City planning
- Economy
- Pollution
- Healthcare
- Education
- Sanitation
- Public spaces
- Recycling
- Sewage treatment

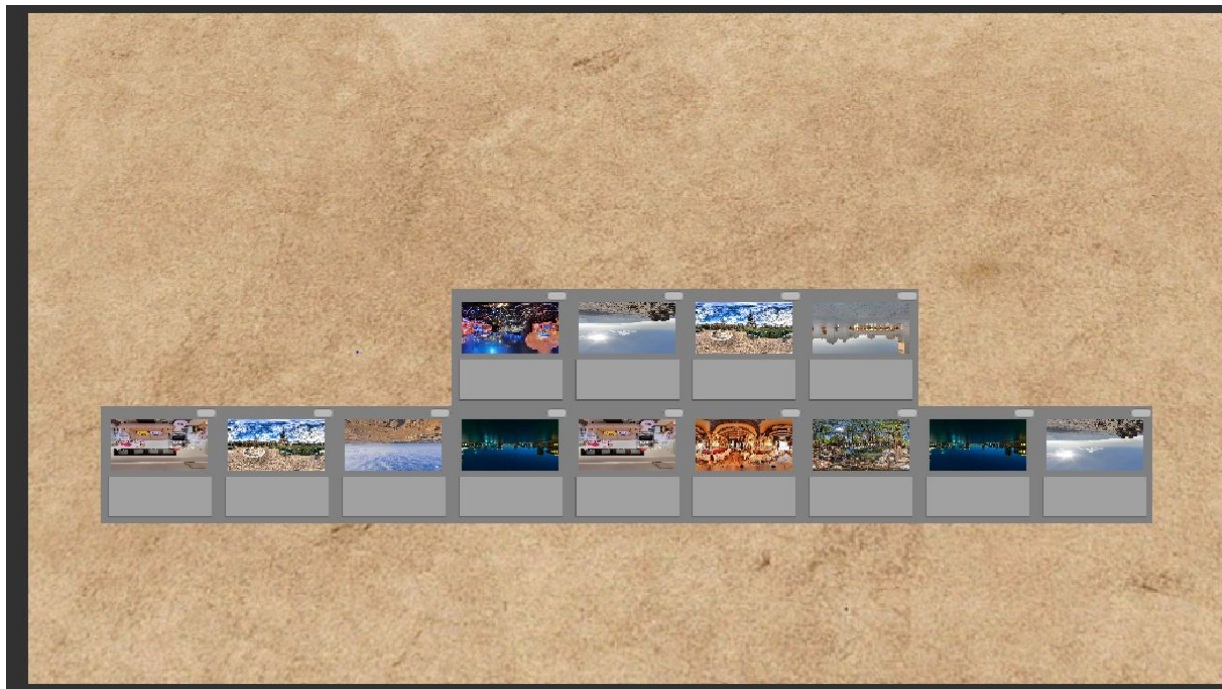
Game Description

- Some initial funding will be given for a city building.
- Player has to build a model city in the a given time frame.
- Money will be given only one time. Then further development will take place only by tax collection of city council.
- Player can take loan from the bank.
- Tax rate will be decided by the player.
- At any given moment, according to the availability of money, player can choose to build different things.

Game UI

- We have used Unity Game engine to build our game.
- There are various cards in the game each having different expenditure listed.
- Cards - Hospital, School, College, Park, public sanitation, Infra, water, Electricity, Police, Monument, Recycle, Sewage.
- We also have a card for bank from which player can borrow money.
- Player can expand only if money is available.
- After fixed intervals, player has option of changing the tax rate.
- On the screen, all the city data such as population, money etc. will be shown in real time.

Game UI



Game UI



Criteria for evaluation

- Our scoring system is very complex. Both formula and real time update is very tedious in the backend. Scoring is not only decided by population or economy but different indicators of health, education, sanitation, pollution etc.
- Card Designs are all conceptualised by us. The card layouts are made by us in photoshop.
- Everything in our game is dynamic. Things change according to the player strategy. E.g. Lower tax rate mean easy to attract professionals but will make it difficult to build new infrastructure unless player borrow money from the bank.

Winner evaluation

- Winner will be decided according to various parameters of economy, health, literacy, pollution, sustainable development etc.
- A city score will be calculated according to the development of city economically, well being of its citizens and environment.
- The path taken to achieve the development will also be accounted in the score.

Github Link

https://github.com/akgupta007/COP290_GAME_DEV.git