Vision Document

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Course:
CSC-102 Programming Fundamentals

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Vision of 1st Year

Quiz Application

I want to develop an examination applicatoin that examines the user(student) with his couse. It will include quizes, essays, AI interviews, idea analasys. Its integrated AI will examine the user through different dimensions. The app will also interact with the user to look out for his weaknesses in the subjects as well as his strenghts, It will keep a track of user's activity and time plans for study, reminding him/her when and where to work, by carving out a smart and relaxing plan in his week for focused and learning based studies. You can operate the app as a student, as a teacher and as a parent to keep track of the record of your child.
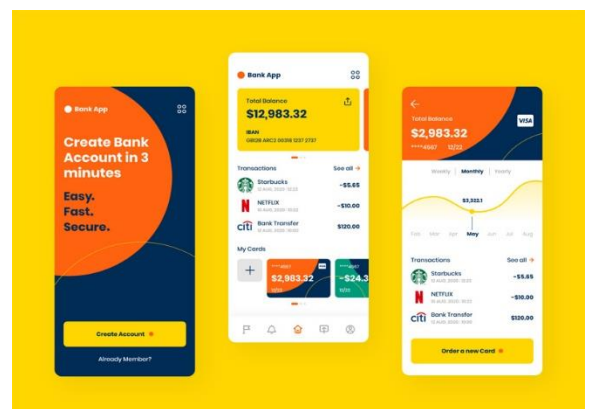
This app will revotunalize education and turn learning experience for a student into an intuitive and entertaining thing.

Preparing for entry tests, I used multi online quizes for my practice and preparation, I had an idea to make the apps more interactive and easy to use, they are a help for students who cant attend physical classes for one reason or another. It will make remote studies and assignments easy and interactive for the user.
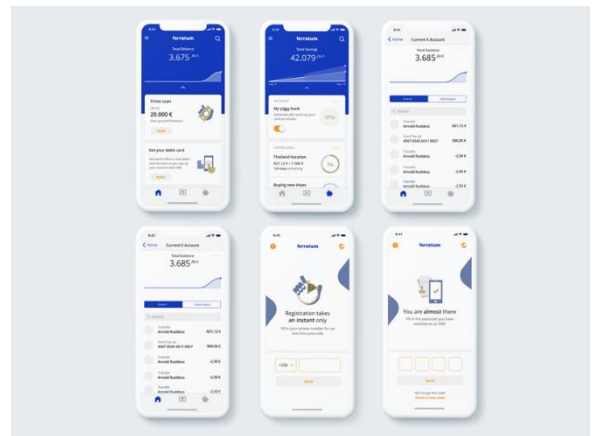

Banking Application

I want to develop an online banking system that interacts with users. It will be able to let the user make transactions online and pay bills and fees, it will also include a chat bot that will educate the user about banking hacks, minimizing taxation legally and apply for loan with the minimum interest rates. It also keeps a track of the user's transaction activity and its integrated AI chooses best plans for the user to uplift his credit points so he can benefit from the banking services by minimizing his extra and unnecessary transactions. You can act through the banking officer, advising the user about offers through his history. The app will also include family accounts, each of them
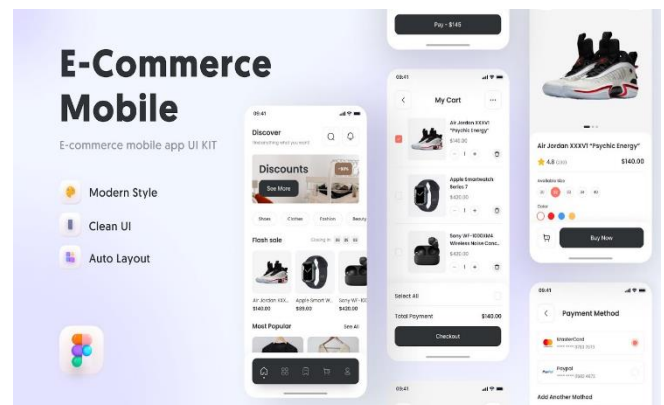
will be registered and restricted to some specific parametres to operate anduse the money inside.

Growing up I always had the motivation to keep my time rather than going to the banks, so green transactions is the main motive behind my project, it will allow user to do complex tasks and calculations at the comfort of his own house.

E Commerce Website

I want to develop an ecommerce application. The game will include multiple users as retailers, buyers, sellers, advertisement marketers. The app will be help for the user to choose and buy variety of things. The thing which will make this application special that it will include an integrated bot that will interact with the user to identifyhis problem and help him better decide what thing he can go with, or he can research the thing interacting with the AI. He can track the record of the products reviews and its price over a certain span of time, it will compare the reviews, prices, shipping rates of the same product with different retailers and even with different websites, to help the user choose better options. You can also operate in the app as a financial helper, freelancing your skills to help the user better choose his product.

2D Game

I want to develop a War strategy game, this game will be based on the theme of world war 2. World War 2 has been more than a classic for military history enthusiasts like me, this game will have various endings of the world war 2, as played and prepared by the user, which were an alternative as predicted by historians. This game will let users delve more into the history of the world war 2, and not only listen to it as a tale rather enjoy every single detail of the game. This game will be a stratergy based game and every single move, as reffered in this game as signed treaties or diplomatic relations with other states, will have the impact on the outcome of the War.

You can play as different countries, abiding to different political ideologies and strategies, keep relations with different states, whether peaceful or intended to occupation, you can trade with them or steal their ports, manipulate media, expand your territories and much more. The game will also include fighting with tanks, aircrafts, naval warships, and with manpower.

As a gaming and a history enthusiast, I have always been fascinated with alternative endings of the wars. What better military strategy any country could've aquired, where they lacked leadership or unity, you never know the answers but the curiosity and fascination has been converted into a motivation to look at this through games and bots. I am inspired by a game called **Hearts Of Iron 4.** The game is based on the same idea.

2D Game

I want to develop an infinite looping game in which the user runs forever until it fails to cross the obtacles in its way, the game is based on the idea of **Subway Surfers**, a game that I used to play in childhoon, I would spend hours on it. Now It has become more of a motivation to dive into its mechanics and see how it works, and will I be able to code it?

2D Game

I want to develop a game like **Candy Crush,** a game that I have been playing for years, the game is based on random fruits that fall on each other, the ones making a three consecutive row, column, diagonal wipes off and new of them replace the row, I believe the game will nourish my coding skills through the brain storming it takes. And will also be a fun thing to code, and play in free time.

2D Game

I want to develop a game in which you play as a shooter, shooting down enemies, the enemies and you'll have health bars, it is more like a team death match, both enemies can fight each other as they are in a state of war. The players will respawn upon each death, the game will have two mods, in one, the one who kills the other specific time wins, and the other will include a times, and until the timer, the person having the most kills' win. The game will also include multi players, you can team up with bots or play against multiple bots. The game is inspired by Players unknown battlegrounds team deathmatch mode.

The game is easy to play and will include variety of weapons, modes and much more.

2D GAME

I want to develop a real life snooker game, that a user can play and learn about snooker mechanics and experience different setups in the game, the game will be help user get better at aiming. The extended version of the game will include multiplayer, playing with your friend.

Some instructions in Choosing your Projects:

Business Application

For project ideas, we recommend researching real-world problems or exploring various management systems used in different industries. You can find inspiration from the internet, books, or any other resources that spark your creativity. Remember, brainstorming and utilizing all available resources are essential steps in developing a successful project.

Your Business application should have at least 2 users.

Your Business application should solve some real world problem

Game

You can choose any game you like, whether it's from your childhood or something you've seen online. Be creative!! It's time to bring your imagination into reality through the game project.

In the game project, we would want you to have 3 different types of enemies for players to face. These enemies can be scary monsters or tricky opponents that make your game more exciting.

Give players a certain number of lives, like hearts in a video game. Players start with a set number of lives, and they can earn more as they play. This adds a challenge because players need to be careful not to lose all their lives and start over.

Also your game should have a firing mechanism. Both of your player and your enemies should fire (either arrows, bullets, or bombs).

You should also include a health system. This means that the player will have a health bar or something similar to show how much health they have left.

Make sure to include a scoring system as well. This means that players earn points for doing well in the game, like defeating enemies or finding special items. The more points they earn, the higher their score will be. This gives players a goal to aim for and adds excitement to the game.