***PROJECT IDEAS DOCUMENT***

***IDEA 1 – STUDENT ADVISOR PROJECT***

*What is the project about?*

* Student Advisor - website based on search engine software. Includes the cheapest pubs, restaurants etc. for students. Search the best deals. User is available to register and login.

*List of pages include (subject to change):*

* Main page with all the info what is student advisor about with search option
* About Page with email etc.
* Register page
* Log in Page
* Read Reviews, Compare Prices

*What is a web search engine?*

* A **'web search engine'** is a software system that is designed to search for information on the World Wide Web.
* The search results are generally presented in a line of results often referred to as search engine results pages (SERPs).
* The information may be a mix of web pages, images, and other types of files. Some search engines also mine data available in databases or open directories.
* Unlike web directories, which are maintained only by human editors, search engines also maintain real-time information by running an algorithm on a web crawler. How? Search engines use software called "spiders" and "crawlers" to routinely scour the web to identify and index web pages. The software used by each search engine works a bit differently.
* The same search conducted with different search engines will yield different results.

*Technologies used*

* Client-side Programming Language
* JavaScript
* HTML5
* Ajax
* Image File Formats:
  + PNG
  + GIF

*Site Elements:*

* External CSS (External Cascading Style Sheets define style rules in a separate CSS file.)
* PHP
* MySQL
* Session Cookies
* Session cookies are temporary cookies, which are deleted when the user closes the browser.
* Web Server:
* Apache (The Apache HTTP Server is a popular open source web server by the Apache Software Foundation.)
* Web Hosting Provider

***IDEA 2 – REVELATION OF WORLDS***

*What is the project about?*

* Revelation of Worlds - game about four different worlds led by chaos and war. Each one with its specific enemies and keys. Only Nephilim can travel through all these worlds and obtain the keys to make a path to last and final world where all the answers lie. Its up to player to find the truth about the war.
* It’s a basic creation of three-dimensional dungeon-alike game using Unity game engine.

*What is a Unity game engine?*

* Just as it’s described its game engine.
* It was developed by Unity Technologies.
* It primarily used to develop both three-dimensional and two-dimensional video games and simulations for computers, consoles, and mobile devices.

*What is going to be created in the game?*

* Start up menu with basic settings
* 5 player maps which will be accessible from each of the maps
* Three dimensional objects such as background decorations
* Three player characters to choose from
* Several types of enemies
* Player score and health
* Coins to buy items
  + Might also include upgrades for health, movement speed, etc.

*Technologies used (subject to change)*

* Unity 2017.3
* C#
* Zbrush
  + It’s a digital sculpting tool that combines 3D/2.5D modelling, texturing and painting.
* 3ds Max
  + It’s a professional 3D computer graphics program for making 3D animations, models, games and images.
* Photoshop
  + Might be used to edit images.
* Maya
  + It is used to create interactive 3D applications, including video games, animated film, TV series, or visual effects.
* Blender
  + Blender is a professional, free and open-source 3D computer graphics software toolset used for creating animated films, visual effects, art, 3D printed models, interactive 3D applications and video games.

*Firebase for Unity (Database)*

* Might be used at the very end to store players scores or/and statistics.
* Firebase has a lot of features, each having its own asset package (e.g. Firebase Analytics, Firebase Database).
* What firebase can do?
  + Save user data
  + Tweak gameplay settings
  + Notification support etc.