Chae'launa Tate

Senior Project

Les Kinsler

Proposal Document

**Problem:**

Dungeons and Dragons has a very complicated character creation and leveling system.

My program will calculate character statistics such as strength, dexterity, constitution, intelligence, wisdom, charisma, fortitude, reflex, will, armor, and their modifiers and level up statistics.

My program will store: character name, player name, class, level, EOL, Race, size, gender, alignment, religon, height, weight, looks/picture, weapon statistics, speed, initiative modifier, touch AL, flat-footed AC, armor worn, shield carried, possessions both on and not on person, magic items worn, money, languages, race, feats and skills.

**Requirements:**

1.The project shall store data for the above categories.

2. The project shall calculate dice rolls.

3. The project shall have a logically laid out UI.

4. The project shall print out a usable character sheet

5. The project shall allow for multiple characters to be created and veiwed

**Non-functional Topics:**

My platform for this project will be a basic windows computer, the program will be created in C# using VisualBasic, and use a database created in SQL Server 2008. The major components of my program will be the database, the UI, and the front end for the database.

**Schedule and timeline**

January 28 – Project has begun. Type, Ui basis, version and book have been selected. I am beginning to work on creating the database layout.

February 20 – Database has been created and populated

March 13 -UI has been created

April 4 & 5 – Most functions have been finished and added to the UI

May 9 - project completed and submitted

**Time estimate:**

Database – 90 hours

UI – 30 hours

Functions – 30 hours

Testing (throughout) – 50 hours

Total: 200 hours

**Acceptance Criteria:**

I will test for Database normality, functionality, and robustness.

I will test the UI to make sure it is not confusing.

I will test to make sure that the functions produce the correct dice rolls and level up rolls.

I will test that the program can print a legible document from the program fields and calculations.