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Course: SDEV-265

Project: Stratego Project

**Requirements Document**

**Introduction:**

The popular board game “Stratego” is a 2-player strategy game that lacks a well-rounded virtual version where players of Stratego can enjoy their favorite tabletop game without needing to spend time on set up. Our mission is to change that. Our version of Stratego will have a graphical board and pieces. Our team is using python code inside of visual studio to achieve these goals.

**System Requirements:**

* Python programmer
* Graphical designer
* Functioning game pieces
* Code to keep track of board state
* Attacking function
* Simple UI

**System Architecture:**

The system architecture will be organized around several generalized classes, allowing for efficient distribution of function to the various discreet game pieces. Board state and piece information will be held and updated throughout the course of player turns, most likely using arrays, lists, or independent assignment. Graphical displays will be located within the program folder as individual files and will be imported by VSCode. We are committed to progressing during this project and will continue to work to make sure we have a fully functioning version of Stratego.

**System Evolution:**

The system will be built incrementally, with each iteration improving and adding additional capabilities. The first iteration will concentrate on putting the fundamental game mechanics and user interface into place. From there, future iterations will continue to develop upon their previous prototypes, culminating in a completed program approximately two weeks prior to course completion. More features like sophisticated AI opponents, and personalization choices are potential features to be included in later versions.

**Appendices:**

* The primary system language will be Python as it is a versatile and capable platform on which to create our game.
* The development environment will be Visual Studio Code, a code editor for many programming languages including Python.
* Microsoft applications, including Word and PowerPoint will be used for documentation purposes.
* The hardware requirements include a combination of desktops and laptops capable of running the Python interpreter and the chosen GUI library.