Software Requirement Specifications

**Product Constraints**

1. Purpose of the Product  
   - To create a game based around a boxer that fights his way through swarms of enemies in each city he visits, fighting his way to the top to become the greatest boxer in the world
2. Stakeholders  
   - Developers  
   - Professors
3. Users  
   - Children and adults of all ages, there are no age restrictions on the game
4. Requirement Constraints  
   - The project must be completely functional by the deadline  
   - The game should be able to run on any pc
5. Naming Convention and Definitions  
   - HP: Health Points  
   - SP: Stamina Points  
   - DMG: Damage  
   - Score: Points accumulated from defeating enemies  
   - Enemy: AI controlled character that attacks the player  
   - Level: Current stage Player is in at that point in the game  
   - Player: Character controlled by the human player  
   - Money: Amount of currency the Player has accumulated
6. Relevant Facts  
   - None at the moment…..
7. Assumptions  
   - The player will have basic knowledge of the basic keyboard layout for PC games  
   - The user will have a PC running at least Windows XP or any later versions of Windows  
   - The user will have a keyboard present with them to be able to play the game

**Functional Requirements**

1. The Scope of the Product  
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2. Functional Requirements  
   - The player character must be able to move in the four general directions (Up, Down, Left Right)  
   - The player must gain experience after every enemy that’s defeated  
   - The enemies must drop money upon being defeated  
   - The player must be able to use the W,A,S, & D keys to punch and kick enemies  
   - The directional keys must be mapped to the four player movements

**Non Functional Requirements**

1. Look and Feel Requirements  
   - Side view perspective  
   - 2D Art and static backgrounds
2. Usability Requirements  
   - Must have a keyboard to play the game
3. Performance Requirements  
   - Game should at least run at a minimum of 25 FPS  
   - Game should not crash upon spawning
4. Operational Requirements  
   - Windows XP or higher