**Final Project – The Concrete Jungle**

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**PROG 2370 – Game Programming with Data Structures**

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**Description**

The Concrete Jungle was designed and created by Dmytrii Furs and Max Carere. The main character's name is John Doe. He is trying to escape the endless jungle of New York, but he has no success with it. The inspiration for this game was an old Google Chrome browser game with the dinosaur. Before the player begins, they must first select "start game" on the title screen using either the up and down keys or their mouse and press the enter key to start it. The player must then type in their name (to record their score) and click on the start arrow. Then, the player is taken to a screen where their character is running and jumping (after the space button is pressed) to avoid enemies.

The player running and jumping is animated, with six frames showing the player running and four showing jumping. While the player isn’t technically moving across the screen, the scrolling background and moving enemies give the impression that he is running, much like in many other old-school games. When the player gets hit, their score is saved and is put on the high score list if they did better than one of the five best players. The high score list and the Help screen, About screen, Start game screen, and Exit option can be accessed from the Start screen.

**Class Diagram**

Diagram, box and whisker chart

Description automatically generated

**References:**

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3. <https://www.artstation.com/artwork/BlWrz> (Road)
4. <https://favpng.com/png_view/sprite-bird-sprite-animation-3d-computer-graphics-png/sCigsCVj> (Bird Enemy)
5. <https://www.myinstants.com/instant/mario-jump/> (Jump Sound)
6. <https://hub.packtpub.com/microsoft-xna-40-game-development-receiving-player-input/> (The approach to create a textbox element was used from this resource)
7. <https://www.fiftysounds.com/royalty-free-music/sfx-defeat3.html> (Hit Sound)
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9. <https://downloads.khinsider.com/game-soundtracks/album/ori-and-the-will-of-the-wisps-2020/01%2520Main%2520Theme.mp3> (Main Menu Theme)
10. <https://opengameart.org/content/running-and-jumping-boy-sprite-sheets> (Main Hero)
11. <https://www.soundjay.com/button-sounds-3.html> (Button Click)