**Work Breakdown Structure**

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| **Project Name:** Public Auction House  **Group Members:** Xinyi Ma, Xin Yi,  **Start Date:** 2020.01.14  **Finish Date:**2020.04 |
| **1: Analysis and Design**  Start Date: 2020.01.15  Estimated Duration time: 3 weeks  **Task 1:**  **Requirement Analysis**   * Analysis the general requirements for the whole system, and then break the requirement into more detailed user stories.   Estimated Completion Date: 2020.01.19  **Task 1.1:**   * Discuss the requirements and details of functions.(2 days)   **Task 1.2:**   * Define the priority of stories and decide to develop according to the priority.(1-2 days)   **Task 2:**  **Assign tasks**  Estimated Completion Date: 2020.01.24  **Task 2.1**   * Create the project on Github, upload design documents.(1-2 days)   **Task 2.2**   * Define interfaces according to each modules.(1-2 days)   **Task 2.2.1**   * Define how much interfaces there are, and what the input parameters and the output parameters are.(1-2 days)   **Task 2.2.2**   * Confirm the modules and interfaces together and prepare the following steps after that.(1-2 days)   **Task 3:**  **Gather Knowledge**   * We decided to implement this whole system by JAVA, so each of us need to learn about JavaFX, socket and related knowledge.   Estimated Completion Date: 2020.01.31  **Task 3.1**   * Each group member should learn JAVA language and know about the how to work on our problem.(1-2 weeks)   **Task 2.2**   * Share what we learnt and discuss about how to solve the problem using them.(1 week) |
| **2: Implement**  Start Date: 2020.01.31  Estimated Duration time: 1-2 months  **Task 1:**  **Set up Environment**   * In this task, we will make some preparation to implement the project,   **Task 1.1:**  Prepare JAVA IDE and programming environment such as INTELLIJ IDEA.**(1 day)**  **Task 1.2:**  Prepare all the files and documents that we will follow.**(2 days)**  **Task 2:**  **Coding**  **Task 2.1**  We will decide how to write codes for each part and start write codes separately for each modules,Bank, Auction House, Auction Central and Client.  **Task 2.2**  We will do the codes reviewing by ourselves at the same time.  **Task 2.3**  We will integrate the codes together and  **Task 3:**  **Run the program** |
| **3: Improve and Finalize**  **Task 1 Test**  Start Date:  Estimated Duration time:  **Task 1.1: Make test plans**  Select test tools, write test cases and generate testing codes.  **Task 1.2: Run the test**  Run the test and generate test code coverage report.  **Task 2 Fix the problems**  In this task, we will |