

# Bid Now: Web-based Auction System

## Planning:

### Instruction

This document is used to plan for testing for the project “web-based auction system”. Once the test plan is outlined, the document must be reviewed and approved by all group members. If anything related to the test plan changes during the execution and testing phase of the project, this document should be updated and re-uploaded to the repository for all parties to review.

### Test Scope

This test plan will test all the requirements for the project, which covers the register, login, main square display, post item, bid item, item display, search, profile display, balance management testing and admin page display, admin verify and cross page, some of which on both front-end and back-end.

### Test Objectives

This test plan will carry out a series of tests, including both front-end and back-end unit tests, integration tests and validation tests, to make sure that each component of the product functions normally, and the product as a whole can function as an individual product and is compatible with the current software environment.

## Test Approach - Strategy

<u>Test Type</u>	<u>Description</u>	<u>Comment</u>
Unit Test	<i>This type tests all changed functionality individually, each with different focus on front-end or back-end</i>	
Integration Test	<i>This type tests all changed functionality end to end.</i>	
Validation Test	<i>This tests the entire system to check the compatibility of the product with the system.</i>	

## Test Resources - Environment (tools, system, databases)

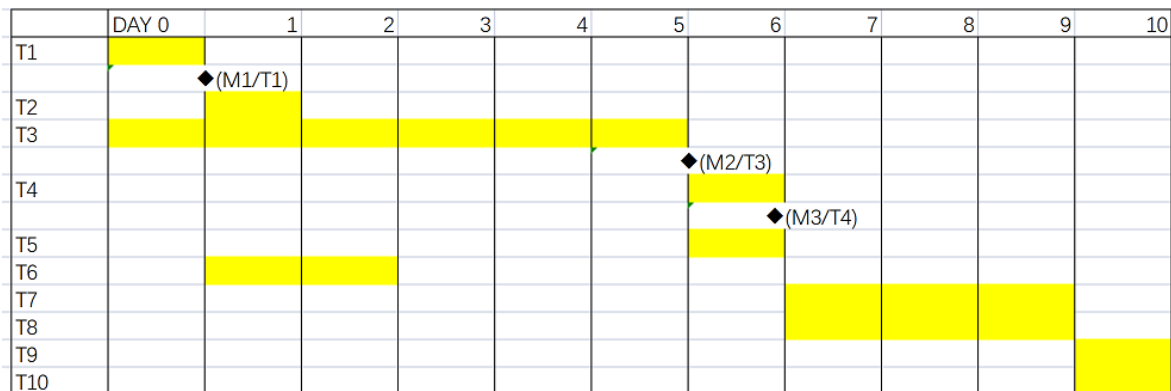
<u>Tools</u>	<u>Description</u>	<u>Version</u>
Chrome	Internet browser to support the website	96.0.4664.45
MySQL	Database Management System to support the data storage of the website	8.0
Python	Scripting language.	3.9.0
Manual input	Manual entry of data onto screen or gui.	n/a
Flask	Micro web framework to help connecting front-end and back-end	2.0.2
<u>System</u>		
Test System	Windows 10	
<u>Database</u>		
Auction	//Auction	

## Test Roles and Responsibilities

<u>Resource</u>	<u>Role</u>	<u>Responsibility</u>
Weyi He	Test Manager/Project Manager	<ul style="list-style-type: none"> <li>Provides technical direction.</li> <li>Acquires testing resources.</li> <li>Assigns tasks to testing resources.</li> <li>Communicates test results to management.</li> </ul>
Leyi Guo	Test Designer	<ul style="list-style-type: none"> <li>Documents test plan.</li> <li>Identifies, documents and prioritizes test cases.</li> <li>Evaluates effectiveness of test effort.</li> </ul>
Yannan Fei	Tester	<ul style="list-style-type: none"> <li>Executes test cases, logs defects, and documents test results.</li> </ul>
Xinyao Wang	Test System Administrator	<ul style="list-style-type: none"> <li>Ensures the test environment and assets are installed, managed and maintained.</li> <li>Includes administration of testing ids.c</li> </ul>

## Test Schedule - Milestones

Task	Duration	Dependencies
T1 Register	1	
T2 Login	1	T1 (M1)
T3 Post Item	5	
T4 Bidding and Payment	1	T3 (M2)
T5 Verifying an Item	1	T3 (M2)
T6 edit profile	2	T1 (M1)
T7 view all items	3	T3 (M2)
T8 view my items	3	T3 (M2)
T9 view my transactions	1	T4 (M3)
T10 Search for all transactions	1	T4 (M3)



<u>Task</u>	<u>Milestone Date</u>
Setup Test Environment	15/11/21
Complete Register Testing	26/11/2021
Complete Post Item Testing	01/12/2021
Complete Bidding and Payment Testing	02/12/2021
Complete All Testing	06/12/2021

## Test Features (Use Cases)

The use cases to be tested are listed as follows:

No. Of Use Cases	Use Case Name	Who will carry out the test	Who will take the test	Pass/Fail Criteria	Testing Schedule

1	<i>Register</i>	Test Manager	Test System Administrator	90% pass	11/25/2021
2	<i>Login</i>	Test Manager	Test System Administrator	90% pass	11/26/2021
3	<i>Post Item</i>	Test Manager	Test System Administrator	90% pass	11/25/2021 - 11/30/2021
4	<i>Bidding and Payment</i>	Test Manager	Test System Administrator	90% pass	12/01/2021
5	<i>Verifying an Item</i>	Test Manager	Test System Administrator	90% pass	12/01/2021
6	<i>Edit Profile</i>	Test Designer	Tester	75% pass	11/26/2021 - 11/27/2021
7	<i>View All Items</i>	Test Designer	Tester	75% pass	12/02/2021 - 12/04/2021
8	<i>View My Items</i>	Test Designer	Tester	75% pass	12/02/2021 - 12/04/2021
9	<i>View My transactions</i>	Test Designer	Tester	75% pass	12/05/2021
10	<i>Search for All Transactions</i>	Test Designer	Tester	75% pass	12/05/2021

### Validation Tests

## Test Case

**Project Name: Bid Now**

**Test Case ID: 50**

**Test Designed by: Leyi Guo**

<b>Test Priority (Low/Medium/High):</b> High	<b>Test Designed date:</b> 28/11/2021
<b>Module Name:</b> Register	<b>Test Executed by:</b>
<b>Test Title:</b> Acceptance register testing	<b>Test Execution date:</b>
<b>Description:</b> Integration test of register. Make sure the user can register successfully.	
<b>Objective:</b> Ensure the system handles the register successfully.	
<b>Pre-conditions:</b> The user enters the system.	

Step	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)	Notes
1	click on register new account	/	the user is directed to register			
2	input email email valid, not in db	registertest@gmail.com	input successfully			
3	input username, username not in db	registertest	input successfully			
4	input password, password with int and char	1234ab	input successfully			
5	input password2, password2 match password1	1234ab	input successfully			
6	click register	/	register successfully, direct to login page the user can be found in the database			

**Post-conditions:**  
The user is registered successfully. We can find the user in the database.

**Acceptance login testing**

**Test Case**

<b>Project Name: Bid Now</b>	
<b>Test Case ID: 51</b>	<b>Test Designed by: Leyi Guo</b>
<b>Test Priority (Low/Medium/High): High</b>	<b>Test Designed date: 26/11/2021</b>
<b>Module Name: Login</b>	<b>Test Executed by:</b>
<b>Test Title: Acceptance login testing</b>	<b>Test Execution date:</b>
<b>Description:</b> The user should be able to login with a valid username and password. If not, warnings will appear.	
<b>Objective:</b> Ensure a valid user can login successfully.	
<b>Pre-conditions:</b> The two blanks on the webpage are empty.	

Step	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)	Notes
1	Input user name already in database	U: user01	Input successfully			
2	Input password already in database	P: 1234asd	Input successfully			
3	Click login	/	Login successfully, directed to main square page			

**Post-conditions:**  
The blanks are filled successfully. The user will be directed to the main square page.

### Acceptance post item testing

<b>Test Case</b>	
<b>Project Name: Bid Now</b>	
<b>Test Case ID: 52</b>	<b>Test Designed by: Yannan Fei, Leyi Guo</b>
<b>Test Priority (Low/Medium/High): Medium</b>	<b>Test Designed date: 26/11/2021</b>

<b>Module Name: Post Item</b>	<b>Test Executed by:</b>
<b>Test Title: Acceptance post item testing</b>	<b>Test Execution date:</b>
<b>Description:</b> <b>The user should be able to post an item.</b>	
<b>Objective:</b> <b>Ensure the post item function works well in the system.</b>	
<b>Pre-conditions:</b> <b>The user logged in.</b>	

Step	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)	Notes
1	click post item	/	directed to post item page			
2	input IN	book	input successfully			
3	select a picture	book.jpg	input successfully			
4	input a description	A book	input successfully			
5	input a upset price	10	input successfully			
6	click post item	/	receive success message the item can be found in the database			

**Post-conditions:**  
**The blanks are filled successfully, the information will be stored in the database.**

### Acceptance bidding and payment testing

<b>Test Case</b>	
<b>Project Name: Bid Now</b>	
<b>Test Case ID: 53</b>	<b>Test Designed by: Leyi Guo</b>
<b>Test Priority (Low/Medium/High): Medium</b>	<b>Test Designed date: 29/11/2021</b>



<b>Module Name: Bid Item</b>	<b>Test Executed by:</b>
<b>Test Title: Acceptance bidding and payment testing</b>	<b>Test Execution date:</b>
<b>Description:</b> The system should handle the bidding correctly.	
<b>Objective:</b> To ensure the system handles bidding correctly.	
<b>Pre-conditions:</b> The user is on the item page.	

Step	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)	Notes
1	input a number greater than the current price, and smaller than balance	current:1000 bid: 2000	Input successfully			
2	Click bid button	/	success message, the price is updated in the database			
3	End the auction	admin01	Auction end success, the balance of user01 should decrease by 2000			

**Post-conditions:**  
The price is updated in the database.

Acceptance verifying an item testing

<b>Test Case</b>	
<b>Project Name: Bid Now</b>	
<b>Test Case ID: 54</b>	<b>Test Designed by: Leyi Guo</b>
<b>Test Priority (Low/Medium/High): Low</b>	<b>Test Designed date: 01/12/2021</b>
<b>Module Name: Verify</b>	<b>Test Executed by:</b>
<b>Test Title: Acceptance verifying an item testing</b>	<b>Test Execution date:</b>

<b>Description:</b> The admin should be able to verify unverified items.	
<b>Objective:</b> Ensure the system handles verifications correctly.	
<b>Pre-conditions:</b> The admin logged in the system. Item02 is unverified.	

Step	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)	Notes
1	click verify	/	notification: verified successfully the auction is on-going the status of the item changes in database			

**Post-conditions:**  
**Item02 is verified.**

Acceptance edit profile testing

<b>Test Case</b>	
<b>Project Name: Bid Now</b>	
<b>Test Case ID: 55</b>	<b>Test Designed by: Leyi Guo</b>
<b>Test Priority (Low/Medium/High): Low</b>	<b>Test Designed date: 01/12/2021</b>
<b>Module Name: Balance Management</b>	<b>Test Executed by:</b>
<b>Test Title: Acceptance edit profile testing</b>	<b>Test Execution date:</b>
<b>Description:</b> The user should be able to add balance to his or her account.	
<b>Objective:</b> Make sure the system adds the balance successfully.	

**Pre-conditions:**  
The user logged in.

Step	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)	Notes
1	click add balance button	/	box appears			
2	input valid number click add	1000	notify: success the user's balance should increase by 1000			

**Post-conditions:**  
The user's balance increased.

Acceptance view all items testing

## Test Case

**Project Name: Bid Now**

**Test Case ID: 56**

**Test Designed by: Leyi Guo**

**Test Priority (Low/Medium/High): High**

**Test Designed date: 26/11/2021**

**Module Name: Main Square Display, Item Display, Search**

**Test Executed by:**

**Test Title: Acceptance view all items testing**

**Test Execution date:**

**Description:**  
The user should be able to see products after login on the main square. The user should view the details of each product after click on it.

**Objective:**  
Ensure the main square page is showing products successfully.

**Pre-conditions:**  
The user opened the webpage.

Step	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)	Notes
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1	login	user01 1234ab	Direct to the main square page display main square successfully			
2	Click on item01	/	display detail of the item correctly			
3	Search for keyword	pen	Display all items including the key word pen successfully			

**Post-conditions:**  
The information of items are displayed correctly.

### Acceptance view my items testing

## Test Case

**Project Name: Bid Now**

**Test Case ID: 57**

**Test Designed by: Leyi Guo**

**Test Priority (Low/Medium/High):  
Low**

**Test Designed date: 26/11/2021**

**Module Name: Profile**

**Test Executed by:**

**Test Title: Acceptance view my  
items testing**

**Test Execution date:**

**Description:**  
After the user clicks the profile  
button, the system should display  
the information correctly.

**Objective:**  
Ensure profile information display  
successfully.

**Pre-conditions:**  
The user clicks on the profile button.

Step	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)	Notes
1	click product bar	user01	information shows successfully			

**Post-conditions:**  
The user is directed to the profile page.

### Acceptance view my transactions

## Test Case

**Project Name: Bid Now**

**Test Case ID: 58**

**Test Designed by: Leyi Guo**

**Test Priority (Low/Medium/High):  
Low**

**Test Designed date: 26/11/2021**

**Module Name: Profile**

**Test Executed by:**

**Test Title: Acceptance view my transactions**

**Test Execution date:**

**Description:  
After the user clicks the profile button, the system should display the information correctly.**

**Objective:  
Ensure profile information display successfully.**

**Pre-conditions:  
The user clicks on the profile button.**

Step	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)	Notes
1	click transaction bar	user01	information shows successfully			

**Post-conditions:  
The user is directed to the profile page.**

### Acceptance search for all transactions testing

## Test Case

**Project Name: Bid Now**

**Test Case ID: 59**

**Test Designed by: Leyi Guo**

**Test Priority (Low/Medium/High):  
Low**

**Test Designed date: 26/11/2021**

<b>Module Name: Admin</b>	<b>Test Executed by:</b>
<b>Test Title: Acceptance search for all transactions testing</b>	<b>Test Execution date:</b>
<b>Description:</b> The admin should be able to search for transactions based on transactionID, seller, user, price.	
<b>Objective:</b> The system handles transactions searching correctly.	
<b>Pre-conditions:</b> The admin logged in.	

Step	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)	Notes
1	Input a transactionID, click search	1000	information shows successfully			
2	Input a seller, click search	user01	information shows successfully			
3	Input a user, click search	user01	information shows successfully			
4	Input a price, click search	2000	can not access to the item page			

**Post-conditions:**  
The user is directed to the profile page.