International School

CAPSTONE PROJECT 2
CMU-SE-451

TEST PLAN DOCUMENT

Version 1.1

Date: 07 – May – 2022

GREEN BIG 5 INFORMATION SYSTEM

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PROJECT INFORMATION		
Project Acronym	GB5	
Project Title	Green Big 5 information system	
Start Date	01 – Mar – 2022	
End Date:	16 – May – 2022	
Lead Institution	International School, Duy Tan University	
Project Mentor	PhD Binh, Nguyen Thanh	
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DOCUMENT INFORMATION		
Document Title	Test Plan	
Author(s)	Team C2SE.32	
Role	[GB5] Test Plan v.1.1	
Date	7 – May – 2022	File name	[GB5] Test_Plan_v11
Access	Project and CMU Program	

REVISION HISTORY

Version	Person(s)	Date	Description	Approval
Draft	Kha, Van Ngo	01 – Mar – 2022	Initiate document	x
1.0	All members	21 – Apr – 2022	Finish content of proposal	x
1.1	All members	07 – May – 2022	Finish document content	x

TABLE OF CONTENTS

1. QUALITY OBJECTIVES

Planning for the project Smart Dashboard Application testing, to ensure that the testing is done according to plan, implement fully the necessary requirements, high work efficiency and give the best product.

2. SCOPE OF TEST

2.1. FUNCTIONS

Below are the functional requirement that are being offered for this system, which are the main purpose of this project:

- GB5 App
  - Login/Sign in: Users can login to the BG5 Application to use it if they already have an account, or they can register if they don't.
  - View the question: Users can see the question in the BG5 Application.
  - Answer the question: Users can answer the question in the application.
  - View the ranking: Users can see their ranking after finishing answering the question, also they can see the other user score.
  - Get location: GB5 app will request location service to get user location
- GB5 data management system
  - Store user information.
  - Store Big5 indicator, so that the Model can receive to predict Big5 traits.
  - Store user's Answer for the Model.
  - Interact with the GB5 App to show the question.
  - Interact with the GB5 AI model.
  - Send the big5 questions based on the *big5 scenario*.
  - Show data into a dashboard to manage the data.
  - Smart Dashboard to generate questions based on Big5 indicator and Environment keyword
  - Predict the user's personality affects the environment

2.2. USER INTERFACE

- **Dashboard scene**
  - Navigation bar scene.
    - Logo
    - Group Button
      - Save
      - User
      - Trait

- ● Question
- ● Menu
  - ■ Group List
  - ■
- ○ Toolbar Scene.
- ○ Mashup Content scene.
- ○ Output log scene.
  - ■ Properties
  - ■ Widget Infos
  - ■ Output log
- ○ Visualization data by Column chart, Line chart.
- **Application scene**
  - ○ Question scene
    - ■ Logo
    - ■ User name
    - ■ Question component
    - ■ Answer component
  - ○ Login scene
    - ■ Logo
    - ■ Phone number /Password Input
    - ■ Forget password
    - ■ Login button
  - ○ Signin scene
    - ■ Welcome text
    - ■ Full name Input
    - ■ Phone number Input
    - ■ Location radio button
    - ■ Gender radio button
    - ■ Age radio button
    - ■ Password Input
    - ■ Re-password Input
  - ○ Signout scene
    - ■ Confirm text
    - ■ Cancel button
    - ■ Yes button

2.3. Databases

- ● Receive data from Dashboard
- ● Send question data to Application
- ● Filtering user's trait team
- ● Calculate user trait

- Send data to the Dashboard

3. TEST STRATEGY

We are using Black box testing due to fast lifecycle of project:

- Manual Test (Exploratory Testing).
- Acceptance Test.
- Functional Test (Function, UI).

4. TEST CRITERIA

- The Testing process finishes when 90% of test cases pass status.
- Testing all test cases.
- The document will be delivered to the customer when sprint time is finished.

5. TEST MANAGEMENT

5.1. TEAM

Full Name	Email	Phone number	Role
Loc, Tien Nguyen	nguyentienloc18122000@gmail.com	0932 478 789	Scrum master
Chung, Bao Hoang	baochunga1@gmail.com	0889 192 932	Team member
Kha, Van Ngo	ngokha437@gmail.com	0935 950 384	Team member
Vinh, Quang Do	doquangvinh0708co.gmail.com	0236 3519 169	Team member

5.2. COMMUNICATION TOOLS

- **Slack**: Report bugs, notify updates,...
- **Messenger**: Chat, discuss.
- **Meet**: discuss online.
- **Skype**: Contact, discuss with mentor Binh.

5.3. TEST MANAGEMENT TOOLS

Purpose	Tool	Vendor/In-house	Version
Excel Sheet to track Test Plan and Test Case	Google Sheet	Google	Latest

6. RISKS & ASSUMPTIONS

6.1. RISKS

Risk	Definition	Probability	Severity	Mitigation Strategy
Scope Risk	A high numbers of modules	H	H	All team members join to test system Testing in each plan
Scheduling Risk	Testing projects are not efficiently or completely	M	M	Move the not finish part of module to the next sprint
Time management	Most of the time is for development, not for testing.	M	H	Overtime
Operation Risk	Ineffective processing, system failures, or unanticipated circumstance define operational risk	M	M	Estimate more time to testing and other issues

Probability		Severity	
L	Rarely happens.	L	Low damaged
M	Sometime happened	M	Medium damaged
H	Usually happened	H	Serious damaged

6.2. ASSUMPTIONS

Assumption to be proven	Impact of Assumption being incorrect	Owners
Network Available	Dropout network, unstable network	Network Providers

7. TEST SCHEDULE

No	Task Name	Duration (Hours)	Start	Finish	Resources
1	**Test Sprint 1**	**30**	**Mar 1, 2022**	**Apr 4, 2022**	
1.1	Document test	8			Chung
1.2	Logo test	2			Vinh
1.3	Login UI test	2			Kha
1.4	Signout UI test	4			Loc
1.5	Sign In UI test	4			Vinh
1.6	Sign In form UI test	4			Kha
1.7	Question UI test	6			Chung
2	**Test Sprint 2**	**48**	**Apr 4, 2022**	**Apr 23, 2022**	
2.1	Validating send question process	10			Loc
2.2	Validating question load process	6			Chung
2.3	Sign in and Sign form test	2			Kha
2.4	Validating team filter test	4			Loc, Vinh
2.5	Signout test	2			Kha
2.6	Answer question test	10			All Member

2.7	Logout test	2			Loc
2.8	API Register test	4			Loc
2.9	API Collect Address test	4			Loc
2.10	Collect Address Function test	4			Kha
3	**Test Sprint 3**	**50**	**Apr 23, 2022**	**May 6, 2022**	
3.1	Check filter by Openness trait	4			Loc
3.2	Check filter by Conscientiousness trait	4			Loc
3.3	Check filter by Extraversion trait	4			Vinh
3.4	Check filter by Agreeable trait	4			Chung
3.5	Check filter by Neuroticism trait	4			Chung
3.6	Check question data bank	6			Vinh
3.7	API Get Keywords test	8			Loc
3.8	Connect Keyword-Big5 Indicator UI test	8			Loc
3.9	Connect Keyword-Big5 Indicator function test	8			Loc
4	**Test Sprint 4**	**30**	**May 6, 2022**	**May 16, 2022**	
4.1	Question Page UI test	2			Chung
4.2	User Page UI test	2			Chung
4.3	Login Page UI test	2			Kha
4.4	Trait Page UI test	2			Loc
4.5	Summary UI test	4			Kha
4.6	Send Question test	4			Chung, Loc
4.7	Save and Send Question UI test	1			Kha

4.8	API Send Question test	3			Vinh
4.9	Save and Send function test	4			Chung
4.10	Notification UI test	2			Loc
4.11	Notification function test	4			Kha