International School

CAPSTONE PROJECT 1
CMU-SE-450

TEST PLAN DOCUMENT

Version 1.0

Date: 12 - Aug - 2021

GREEN BIG 5 INFORMATION SYSTEM

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Capstone Project 1 - Mentor:

Name	Signature	Date

Binh, Thanh Nguyen _____   _____31 - Nov- 2021

PROJECT INFORMATION			
Project Acronym	GB5		
Project Title	Green Big 5 information system		
Start Date	12 - Aug - 2021		
End Date:	15 - Dec - 2021		
Lead Institution	International School, Duy Tan University		
Project Mentor	PhD Binh, Nguyen Thanh		
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Document Title	Project Proposal		
Author(s)	Team C1SE.02		
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REVISION HISTORY

Version	Person(s)	Date	Description	Approval
Draft	Chinh, Thai Huu	12 - Aug - 2021	Initiate document	x
1.0	All members	12 - Nov - 2021	Finish content of proposal	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.
- 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.

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
        - ■ 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% 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
Chinh, Huu Thai	huuchinhdev@gmail.com	0962 545 506	Scrum master
Chung, Bao Hoang	baochunga1@gmail.com	0889 192 932	Team member
Loc, Tien Nguyen	nguoicodontloc@gmail.com	0397 793 888	Team member
Hau, Bui Phuc	bphau121020@gmail.com	0906 518 281	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**	**Aug 12, 2021**	**Sep 10, 2021**	
1.1	Document test	8			Chung
1.2	Logo test	2			Chinh
1.3	Login UI test	2			Hau
1.4	Signout UI test	4			Loc
1.5	Sign In UI test	4			Chinh
1.6	Sign In form UI test	4			Chinh
1.7	Question UI test	6			Chung
2	**Test Sprint 2**	**48**	**Sep 11, 2021**	**Oct 10, 2021**	
2.1	Validating send question process	10			Loc
2.2	Validating question load process	8			Chung
2.3	Sign in and Sign form test	6			Chinh
2.4	Validating team filter test	4			Loc, Chinh
2.5	Signout test	8			Hau
2.6	Answer question test	10			All Member
2.7	Logout test	2			Loc
3	**Test Sprint 3**	**50**	**Oct 11, 2021**	**Nov 9, 2021**	
3.1	Check filter by Openness trait	8			Loc
3.2	Check filter by Conscientiousness trait	8			Loc
3.3	Check filter by Extraversion trait	8			Hau

3.4	Check filter by Agreeable trait	8			Chung
3.5	Check filter by Neuroticism trait	8			Chung
3.6	Check question data bank	10			Chinh
4	**Test Sprint 4**	**96**	**Nov 10, 2021**	**Dec 12, 2021**	
4.1	Question Page UI test	2			Chung
4.2	User Page UI test	2			Chung
4.3	Login Page UI test	2			Hau
4.4	Trait Page UI test	2			Loc
4.5	Summary UI test	4			Chinh
4.6	Send Question test	8			Chung,Chinh