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| **International School**  CAPSTONE PROJECT 1  **CMU-SE-450**  TEST PLAN DOCUMENT  Version 1.0  Date: 12 - Aug - 2021  GREEN BIG 5 INFORMATION SYSTEM  Submitted by  Thai Huu Chinh  Hoang Bao Chung  Nguyen Tien Loc  Bui Phuc Hay  **Approved by**  **Capstone Project 1 - Mentor:**  Name Signature Date  Binh, Thanh Nguyen \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_31 - Nov- 2021 |

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| **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 | | |
| **Scrum Master** | Chinh, Thai Huu | huuchinhdev@gmail.com | 0935.193.182 |
| **Team Members** | Hau, Phuc Bui | bphau121020@gmail.com | 0775522365 |
| Chung, Bao Hoang | baochunga1@gmail.com | 0889192932 |
| Loc, Tien Nguyen | nguyentienloc18122000@gmail.com | 0932478789 |

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| **Author(s)** | Team C1SE.02 | | |
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| **Date** | 16 - Nov - 2021 | File name | [GB5] Test\_Plan\_v1.0 |
| **Access** | Project and CMU Program | | |

## 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 |
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# TABLE OF CONTENTS

[REVISION HISTORY 2](#_Toc91614828)

[TABLE OF CONTENTS 3](#_Toc91614829)

[1. QUALITY OBJECTIVES 4](#_Toc91614830)

[2. SCOPE OF TEST 4](#_Toc91614831)

[2.1. FUNCTIONS 4](#_Toc91614832)

[2.2. USER INTERFACE 4](#_Toc91614833)

[2.3. Databases 5](#_Toc91614834)

[3. TEST STRATEGY 5](#_Toc91614835)

[4. TEST CRITERIA 6](#_Toc91614836)

[5. TEST MANAGEMENT 6](#_Toc91614837)

[5.1. TEAM 6](#_Toc91614838)

[5.2. COMMUNICATION TOOLS 6](#_Toc91614839)

[5.3. TEST MANAGEMENT TOOLS 6](#_Toc91614840)

[6. RISKS & ASSUMPTIONS 7](#_Toc91614841)

[6.1. RISKS 7](#_Toc91614842)

[6.2. ASSUMPTIONS 7](#_Toc91614843)

[7. TEST SCHEDULE 8](#_Toc91614844)

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# 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.

# SCOPE OF TEST

## 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.

## 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

## Databases

* Receive data from Dashboard
* Send question data to Application
* Filtering user’s trait team
* Calculate user trait
* Send data to the Dashboard

# TEST STRATEGY

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

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

# 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.

# TEST MANAGEMENT

## 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 |

## COMMUNICATION TOOLS

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

## TEST MANAGEMENT TOOLS

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

# RISKS & ASSUMPTIONS

## 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 |

## ASSUMPTIONS

## 

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

# 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 |