Document History

Document Name	Detail	Status	Date	View able	Reviewer& Responsible
HanDIYcraft-Test Plan-V.0.1.docx	-Introduction	Draft	30/4/14	Advisor	NK, PS
HanDIYcraft –Test Plan-0.2.docx	-Unit Testing -System Testing	Draft	25/6/14	Advisor	NK, PS
HanDIYcraft -Test Plan-0.3.docx	-Update Unit Testing -Update System Testing	Draft	27/6/14	Advisor	NK, PS
HanDIYcraft –Test Plan-1.0.docx	-Update Unit Testing -Update System Testing -Update Test Plan and Procedure	Release	6/7/14	Advisor	NK, PS

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7th July 2014

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Chapter One | Introduction

1.1 Objective

The main objective of this test plan document is to plan the testing process, which are unit and system testing in order to ensure that errors and defects are all detected and fixed.

1.2 Scope

This Test Plan Document will describe about the testing method, which are Unit testing and System testing. This testing is created in order to verify the system that it has met all of the user requirements.

1.3 Acronyms and Definitions

- Acronyms

    PMP = Project Management Plan
    SDD = Software Design Document
    SRS = Software Requirement Specification
    URS = User Requirement Specification
    UC = Use Case
    AD = Activity Diagram
    UI = User Interface
    UTC = Unit Test Case
    STC = System Test Case
    SW = Siraprapa Wattanakul
    NK = Nahathai Kaewtatib
    PS = Pimchanok Sripraphan

- Definitions

Feature	Transformation of input parameters to output parameters based on a specified algorithm. It describes the functionality of a produce in the language of the product. Used for requirements analysis, design, coding, testing or maintenance. [IEEE90]
Design	The period of time in the software life cycle during which the designs for architecture, software component, interfaces and data are created, documented, and verified to satisfy requirements. [IEEE90]
IEEE	Institute for Electrical and Electronics Engineers. Biggest global interest group for engineers of different branches and for computer scientists. [IEEE90]
Requirement	(1) A condition or capability needed by a user to solve a problem or achieve an objective. (2) A condition or capability that must be met or processed by system or system component to satisfy a contract, standard, specification, or other formally imposed document. (3) A documented representation of a condition or capability as in definition (1) or (2). [IEEE90]

Specification	Precise description of an activity or work product which serves as basis or input for further activities or work product. A specification can comprise requirements to a product and how they will be solved. Different parts of a specification (e.g. what is to be done, how it will be done) must not be mixed. [IEEE90]
White box testing	Testing process that focus on internal structure. The tester should know the code inside the program and test it through the code and determines the appropriate outputs.
Black box testing	Process, device or system that focus on input, output and transfer characteristics without knowledge about it internal structure.
Unit Testing	A level of the software testing process where individual units/components of a software/system are tested. The purpose is to validate that each unit of the performs as designed.
System testing	A level of the software testing process where a complete, integrated system/software is tested. The purpose of this test is to evaluate the system's compliance with the specified requirements.

Chapter Two |
Test Plan and Test Procedure

2.1 Test Objectives

The objectives for HanDIYcraft testing process includes:
1) Detect all errors or defects.
2) Fix those errors or defects.
3) The system's performance meets all of the user requirements.
4) All functional requirements are covered

2.2 Scope

HanDIYcraft will be tested by white-box and black-box testing methods, which are unit and system testing, and the test result will be recorded in the test record.

2.3 Test Duration

Progress	Date and Duration
Progress Report I	**Perform Date:** 29th June 2014 – 30th June 2014 (Unit and System Test) **Duration:** 2 days
Progress Report II	**Perform Date:** 28th August 2014 – 29th August 2014 (Unit and System Test) **Duration:** 2 days
Progress Report III (Show Pro)	**Perform Date:** 30th October 2014 – 31st October 2014 (Unit and System Test) **Duration:** 2 days
Final Progress Report	**Perform Date:** 21st November 2014 – 22nd November 2014 (Unit and System Test) **Duration:** 2 days

2.4 Test Responsibility

Item	Responsibility
Unit test of web application	PS
Unit test of android application	PS
Record unit test of web application	NK
Record unit test of android application	NK
System test of web application	PS
System test of android application	PS
Record system test of web application	NK
Record system test of android application	NK

2.5 Test Strategy

HanDIYcraft test strategy will be followed by:
1) Set up test cases for each feature.
2) Prepare test data for each feature.
3) Determine the expected result of each test case.
4) Perform the testing feature by feature.
5) Record the actual testing result.

2.6 Result of Testing

The result will be separated into two parts.

2.6.1 Actual result: It is the output that comes out from the real performance of the system, and will be performed according to the test cases.

2.6.2 Pass/Fail criteria:

Pass: when the actual result comes out as same as expected result.

Fail: when the actual result comes out differently from expected result.

2.7 Test Environment

2.7.1 Hardware

- Computer Asus
- Smart phone with Android version 4.2 or later

2.7.2 Software

- Google Chrome version 35.0.1916.153
- Eclipse version 4.2.2 (32-bit)
- Android ADT version 20.0.3

Chapter Three | Unit Testing of HanDIYcraft Web Application

Web Unit Test Case 01 (W-UTC-01)
Class Name: HomeVisitor
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Shows the visitor home page user interface	Click "Home"	W-UI-03

Web Unit Test Case 02 (W-UTC-02)
Class Name: Register
Test Data:

Username	Password	Re-Password	Email
Hideandseek05	12345	12345	hello@gmail.com

Test Case:

ID	Description	Input	Expected Result
1	Input correct format information.	**Username:** Hideandseek05 **Password:** 12345 **Re-Password:** 12345 **Email:** hello@gmail.com	True
2	Input username more than 20 characters.	**Username:** aaaaaaaaaaaaaaaaaaaaa **Password:** 12345 **Re-Password:** 12345 **Email:** hello@gmail.com	False
3	Input username with symbols.	**Username:** Hello!@#$% **Password:** 12345 **Re-Password:** 12345 **Email:** hello@gmail.com	False

4	Input the username that already exist in database.	**Username:** aaa **Password:** 12345 **Re-Password:** 12345 **Email:** hello@gmail.com	False
5	Input password more than 20 characters information.	**Username:** Hideandseek05 **Password:** aaaaaaaaaaaaaaaaaaaaa **Re-Password:** aaaaaaaaaaaaaaaaaaaaa **Email:** hello@gmail.com	False
6	Input password with symbols.	**Username:** Hideandseek05 **Password:** 12345!@#$% **Re-Password:** 12345!@#$% **Email:** hello@gmail.com	False
7	Input Re-Password that does not match with the password.	**Username:** Hideandseek05 **Password:** 12345 **Re-Password:** aaaaa **Email:** hello@gmail.com	False
8	Input wrong format of Email.	**Username:** Hideandseek05 **Password:** 12345 **Re-Password:** 12345 **Email:** aaaaa	False
9	Leave some fields blank	**Username:** Hideandseek05 **Password:** 12345 **Re-Password:** - **Email:** -	False

Web Unit Test Case 03 (W-UTC-03)
Class Name: Login
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Shows the blogger home page user interface	Click "Log in"	W-UI-02

Web Unit Test Case 04 (W-UTC-04)
Class Name: CheckLogin
Test Data:

Username	Password
Hideandseek05	12345

Test Case:

ID	Description	Input	Expected Result
1	Input valid username and password.	**Username:** Hideandseek05 **Password:** 12345	True
2	Input invalid username or password.	**Username:** xxxxx **Password:** xxxxx	False
3	Leave some fields blank	**Username:** - **Password:** 12345	False

Web Unit Test Case 05 (W-UTC-05)
Class Name: HomeBlogger
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Shows the blogger home page user interface	Click "Home"	W-UI-04

Web Unit Test Case 06 (W-UTC-06)
Class Name: LogOut
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Select log out link to make sure that the system is able to let blogger log out from the system.	Click "Log out"	W-UI-03

Web Unit Test Case 07 (W-UTC-07)
Class Name: ViewProfileDetail
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Shows the profile page user interface	Click "Profile"	W-UI-09

Web Unit Test Case 08 (W-UTC-08)
Class Name: ShowProfile
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Select profile link to make sure that the system can redirect to blogger's profile page.	Click "Profile"	True

Web Unit Test Case 09 (W-UTC-09)
Class Name: UpdateProfile
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Shows the edit profile page user interface	Click "Edit profile"	W-UI-10

Web Unit Test Case 10 (W-UTC-10)
Class Name: EditProfile
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Input correct format information.	**Email:** kanom@msn.com	True
2	Input wrong format of Email.	**Email:** aaaaa	False
3	Leave some fields blank	**Email:** -	False
4	Input correct picture format.	"IMG_ProfilePic.jpg"	True
5	Input wrong picture format.	"IMG_ProfilePic.pptx"	False

Web Unit Test Case 11 (W-UTC-11)
Class Name: ChangePassword
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Shows the change password page user interface	Click "Change password"	W-UI-11

Web Unit Test Case 12 (W-UTC-12)
Class Name: EditPassword
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Input correct format information.	**Current password:** 12345 **New password:** 00000 **Re-New password:** 0000	True
2	Input wrong current password.	**Current password:** 55555 **New password:** 00000 **Re-New password:** 0000	False
3	Input new password more than 20 characters.	**Current password:** 12345 **New password:** aaaaaaaaaaaaaaaaaaaaa **Re-New password:** aaaaaaaaaaaaaaaaaaaaa	False
4	Input new password with symbol.	**Current password:** 12345 **New password:** 00*00 **Re-New password:** 00*00	False
5	Input re-new password that does not match with the new password.	**Current password:** 12345 **New password:** 00000 **Re-New password:** 0011	False
6	Leave some fields blank	**Current password:** 12345 **New password:** 00000 **Re-New password:** -	False

Web Unit Test Case 13 (W-UTC-13)
Class Name: DeleteAccount
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Delete blogger's information from database	Click "Delete Account"	True

Web Unit Test Case 14 (W-UTC-14)
Class Name: TutorialRandom
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Shows list of random tutorials.	Click "Random"	True

Web Unit Test Case 15 (W-UTC-15)
Class Name: Random
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Get list of random tutorials.	Click "Random"	True

Web Unit Test Case 16 (W-UTC-16)
Class Name: TutorialPopular
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Shows list of most liked tutorials.	Click "Popular"	True

Web Unit Test Case 17 (W-UTC-17)
Class Name: Popular
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Get list of most likedtutorials.	Click "Popular"	True

Web Unit Test Case 18 (W-UTC-18)
Class Name: TutorialCategoriesList
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Shows list of tutorial categories, which are outfit, accessory, gift, kid, garden, home décor, pet, and other.	Click "Categories"	True

Web Unit Test Case 19 (W-UTC-19)
Class Name: TutorialCategory
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Select "Outfit" link to make sure that the system can show tutorials from outfit category.	Click "Outfit"	True

2	Select "Accessory" link to make sure that the system can show tutorials from accessory category.	Click "Accessory"	True
3	Select "Gift" link to make sure that the system can show tutorials from gift category.	Click "Gift"	True
4	Select "Kid" link to make sure that the system can show tutorials from kid category.	Click "Kid"	True
5	Select "Garden" link to make sure that the system can show tutorials from garden category.	Click "Garden"	True
6	Select "Home Decor" link to make sure that the system can show tutorials from home decor category.	Click "Home Decor"	True
7	Select "Pet" link to make sure that the system can show tutorials from pet category.	Click "Pet"	True
8	Select "Other" link to make sure that the system can show tutorials from other category.	Click "Other"	True

Web Unit Test Case 20 (W-UTC-20)
Class Name: TutorialSearch
Test Data:

Keyword
Bracelet

Test Case:

ID	Description	Input	Expected Result
1	Shows list of tutorials that contains the searched keyword.	Keyword "Bracelet"	True
2	No tutorial for the keyword.	Keyword "zzzzz"	False

Web Unit Test Case 21 (W-UTC-21)
Class Name: Search
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Get tutorials that contain the searched keyword.	Click "Search"	True

Web Unit Test Case 22 (W-UTC-23)
Class Name: TutorialFollow
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Shows list of tutorials from following bloggers.	Click "Following"	True

Web Unit Test Case 23 (W-UTC-23)
Class Name: Follow
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Get tutorials from the following bloggers	Click "Following"	True

Web Unit Test Case 24 (W-UTC-24)
Class Name: ViewTutorialDetail
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Select tutorial link to make sure that the system can redirect to tutorial detail page.	Select a tutorial	True

Web Unit Test Case 25 (W-UTC-25)
Class Name: CreateTutorial
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Shows the create tutorial page user interface	Click "Create tutorial"	W-UI-13

Web Unit Test Case 26 (W-UTC-26)
Class Name: AddTutorial
Test Data:

Tutorial picture	Title	Category	Material picture	Material description	Video
IMG_tutorial.jpg	Handmade Bracelet	Accessory	IMG_material.jpg	1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin	VDO_tutorial.mov

Step	Step picture	Step description
1	IMG_step1.jpg	Cut the rope to have the length as long as it can be out around your wrist.

Test Case:

ID	Description	Input	Expected Result
1	Input correct format information	**Tutorial picture:** "IMG_tutorial.jpg" **Title:** "Handmade Bracelet" **Category:** "Accessory" **Material picture:** "IMG_material.jpg" **Material description:** "1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin" **Step:** "1" **Step1 picture:** "IMG_step1.jpg" **Step1 description:** "Cut the rope to have the length as long as it can be out around your wrist." **Video:** "VDO_tutorial.mov"	True
2	Input wrong picture format	**Tutorial picture:** "IMG_tutorial.pptx" **Title:** "Handmade Bracelet" **Category:** "Accessory" **Material picture:** "IMG_material.jpg" **Material description:** "1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin" **Step:** "1" **Step1 picture:** "IMG_step1.pptx" **Step1 description:** "Cut the rope to have the length as long as it can be out around your wrist." **Video:** "VDO_tutorial.mov"	False

3	Input title more than 20 characters	**Tutorial picture:** "IMG_tutorial.jpg" **Title:** "Handmade Bracelet xxxxx" **Category:** "Accessory" **Material picture:** "IMG_material.jpg" **Material description:** "1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin" **Step:** "1" **Step1 picture:** "IMG_step1.jpg" **Step1 description:** "Cut the rope to have the length as long as it can be out around your wrist." **Video:** "VDO_tutorial.mov"	False
4	Leave category blank	**Tutorial picture:** "IMG_tutorial.jpg" **Title:** "Handmade Bracelet" **Category:** - **Material picture:** "IMG_material.jpg" **Material description:** "1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin" **Step:** "1" **Step1 picture:** "IMG_step1.jpg" **Step1 description:** "Cut the rope to have the length as long as it can be out around your wrist." **Video:** "VDO_tutorial.mov"	False
5	Input description more than 500 characters	**Tutorial picture:** "IMG_tutorial.jpg" **Title:** "Handmade Bracelet" **Category:** "Accessory" **Material picture:** "IMG_material.jpg" **Material description:** "1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin" **Step:** "1" **Step1 picture:** "IMG_step1.jpg" **Step1 description:** "A wonderful serenity has taken possession of my entire soul, like these sweet mornings of spring which I enjoy with my whole heart. I am alone, and feel the charm of existence in this spot, which was created for the bliss of souls like mine. I am	False

		so happy, my dear friend, so absorbed in the exquisite sense of mere tranquil existence, that I neglect my talents. I should be incapable of drawing a single stroke at the present moment; and yet I feel that I never was a greater artist than now. When, while the." **Video:** "VDO_tutorial.mov"	
6	Input step more than 6	**Tutorial picture:** "IMG_tutorial.jpg" **Title:** "Handmade Bracelet" **Category:** "Accessory" **Material picture:** "IMG_material.jpg" **Material description:** "1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin" **Step:** "10" **Step1 picture:** "IMG_step1.jpg" **Step1 description:** "Cut the rope to have the length as long as it can be out around your wrist." **Video:** "VDO_tutorial.mov"	False
7	Leave step blank	**Tutorial picture:** "IMG_tutorial.jpg" **Title:** "Handmade Bracelet" **Category:** "Accessory" **Material picture:** "IMG_material.jpg" **Material description:** "1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin" **Step:** - **Step1 picture:** "IMG_step1.jpg" **Step1 description:** "Cut the rope to have the length as long as it can be out around your wrist." **Video:** "VDO_tutorial.mov"	False
8	Input wrong video format	**Tutorial picture:** "IMG_tutorial.jpg" **Title:** "Handmade Bracelet" **Category:** "Accessory" **Material picture:** "IMG_material.jpg" **Material description:** "1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin" **Step:** "1"	False

		Step1 picture: "IMG_step1.jpg" Step1 description: "Cut the rope to have the length as long as it can be out around your wrist." Video: "VDO_tutorial.m4a"	
9	Leave some fields blank	Tutorial picture: "IMG_tutorial.jpg" Title: - Category: "Accessory" Material picture: - Material description: - Step: "1" Step1 picture: "IMG_step1.jpg" Step1 description: - Video: "VDO_tutorial.mov"	False

Web Unit Test Case 27 (W-UTC-27)
Class Name: UpdateTutorial
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Shows the edit tutorial page user interface	Click "Edit tutorial"	W-UI-15

Web Unit Test Case 28 (W-UTC-28)
Class Name: EditTutorial
Test Data:

Tutorial picture	Title	Category	Material picture	Material description	Video
IMG_tutorial 2.jpg	DIY Bracelet	Outfit	IMG_material 2.jpg	1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin 6.Color	VDO_tutor ial.mov

Step	Step picture	Step description
1	IMG_step1.jpg	Cut the rope to have the length as long as it can be out around your wrist.
2	IMG_step2.jpg	Now it's time to decorate!

Test Case:

ID	Description	Input	Expected Result
1	Input correct format information	**Tutorial picture:** "IMG_tutorial2.jpg" **Title:** "DIY Bracelet" **Category:** "Outfit" **Material picture:** "IMG_material2.jpg" **Material description:** "1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin 6.Color" **Step:** "2" **Step1 picture:** "IMG_step1.jpg" **Step1 description:** "Cut the rope to have the length as long as it can be out around your wrist." **Step2 picture:** "IMG_step2.jpg" **Step2 description:** "Now it's time to decorate!" **Video:** "VDO_tutorial.mov"	True

| 2 | Input wrong picture format | **Tutorial picture:** "IMG_tutorial2.pptx"
Title: "DIY Bracelet"
Category: "Outfit"
Material picture: "IMG_material2. pptx"
Material description: "1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin 6.Color"
Step: "2"
Step1 picture: "IMG_step1. pptx"
Step1 description: "Cut the rope to have the length as long as it can be out around your wrist."
Step2 picture: "IMG_step2. pptx"
Step2 description: "Now it's time to decorate!"
Video: "VDO_tutorial.mov" | False |
| 3 | Input title more than 20 characters | **Tutorial picture:** "IMG_tutorial2.jpg"
Title: "DIY Bracelet xxxxxxxxxxxxxx"
Category: "Outfit"
Material picture: "IMG_material2.jpg"
Material description: "1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin 6.Color"
Step: "2"
Step1 picture: "IMG_step1.jpg"
Step1 description: "Cut the rope to have the length as long as it can be out around your wrist."
Step2 picture: "IMG_step2.jpg"
Step2 description: "Now it's time to decorate!
Video: "VDO_tutorial.mov" | False |

| 4 | Leave category blank | **Tutorial picture:** "IMG_tutorial2.jpg"
Title: "DIY Bracelet"
Category: -
Material picture: "IMG_material2.jpg"
Material description: "1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin 6.Color"
Step: "2"
Step1 picture: "IMG_step1.jpg"
Step1 description: "Cut the rope to have the length as long as it can be out around your wrist."
Step2 picture: "IMG_step2.jpg"
Step2 description: "Now it's time to decorate!"
Video: "VDO_tutorial.mov" | False |
| 5 | Input description more than 500 characters | **Tutorial picture:** "IMG_tutorial2.jpg"
Title: "DIY Bracelet"
Category: "Outfit"
Material picture: "IMG_material2.jpg"
Material description: "1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin 6.Color"
Step: "2"
Step1 picture: "IMG_step1.jpg"
Step1 description: "Cut the rope to have the length as long as it can be out around your wrist."
Step2 picture: "IMG_step2.jpg"
Step2 description: "A wonderful serenity has taken possession of my entire soul, like these sweet mornings of spring which I enjoy with my whole heart. I am alone, and feel the charm of existence in this spot, which was created for the bliss of souls like mine. I am so happy, my dear friend, so absorbed in the exquisite sense of mere tranquil existence, that I neglect my talents. I should be incapable of drawing a single stroke at the present moment; and yet I feel that I never was a greater artist than now. When, while the."
Video: "VDO_tutorial.mov" | False |

6	Input step more than 6	**Tutorial picture:** "IMG_tutorial2.jpg" **Title:** "DIY Bracelet" **Category:** "Outfit" **Material picture:** "IMG_material2.jpg" **Material description:** "1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin 6.Color" **Step:** "10" **Step1 picture:** "IMG_step1.jpg" **Step1 description:** "Cut the rope to have the length as long as it can be out around your wrist." **Step2 picture:** "IMG_step2.jpg" **Step2 description:** "Now it's time to decorate!" **Video:** "VDO_tutorial.mov"	False
7	Leave step blank	**Tutorial picture:** "IMG_tutorial2.jpg" **Title:** "DIY Bracelet" **Category:** "Outfit" **Material picture:** "IMG_material2.jpg" **Material description:** "1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin 6.Color" **Step:** - **Step1 picture:** "IMG_step1.jpg" **Step1 description:** "Cut the rope to have the length as long as it can be out around your wrist." **Step2 picture:** "IMG_step2.jpg" **Step2 description:** "Now it's time to decorate!" **Video:** "VDO_tutorial.mov"	False
8	Input wrong video format	**Tutorial picture:** "IMG_tutorial2.jpg" **Title:** "DIY Bracelet" **Category:** "Outfit" **Material picture:** "IMG_material2.jpg" **Material description:** "1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin 6.Color" **Step:** "2" **Step1 picture:** "IMG_step1.jpg" **Step1 description:** "Cut the rope to have the length as long as it can be out around your wrist."	False

		Step2 picture: "IMG_step2.jpg" **Step2 description:** "Now it's time to decorate!" **Video:** "VDO_tutorial.m4a"	
9	Leave some fields blank	**Tutorial picture:** "IMG_tutorial2.jpg" **Title:** - **Category:** "Outfit" **Material picture:** - **Material description:** - **Step:** "2" **Step1 picture:** "IMG_step1.jpg" **Step1 description:** - **Step2 picture:** "IMG_step2.jpg" **Step2 description:** "Now it's time to decorate!" **Video:** "VDO_tutorial.mov"	False

Web Unit Test Case 29 (W-UTC-29)
Class Name: DeleteAccount
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Delete the tutorial from database	Click "Delete tutorial"	True

Chapter Four | Unit Testing of HanDIYcraft Android Application

Mobile Unit Test Case 01 (M-UTC-01)
 Method: OnCreate(savedInstanceState : Bundle)
Class Name: HomeVisitorActivity
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Shows the visitor home page user interface	Tab "Home"	M-UI-03

Mobile Unit Test Case 02 (M-UTC-02)
 Method: OnCreate(savedInstanceState : Bundle)
Class Name: LoginActivity
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Shows the log in page user interface	Tab "Log in"	M-UI-02

Mobile Unit Test Case 03 (M-UTC-03)

Method: login()
Class Name: LoginActivity
Test Data:

Username	Password
Hideandseek05	12345

Test Case:

ID	Description	Input	Expected Result
1	Input valid username and password.	**Username:** Hideandseek05 **Password:** 12345	True
2	Input invalid username or password.	**Username:** xxxxx **Password:** xxxxx	False
3	Leave some fields blank	**Username:** - **Password:** 12345	False

Mobile Unit Test Case 04 (M-UTC-04)

Method: session_destroy()
Class Name: LogOutActivity
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Shows the visitor home page user interface	Tab "Log out"	M-UI-03

Mobile Unit Test Case 05 (M-UTC-05)

Method: OnCreate(savedInstanceState : Bundle)
Class Name: RegisterActivity
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Shows the sign up page	Tab "Sign up"	M-UI-01

---

user interface

Mobile Unit Test Case 06 (M-UTC-06)
Method: addData()
Class Name: RegisterActivity
Test Data:

Username	Password	Re-Password	Email	Role
Hideandseek05	12345	12345	hello@gmail.com	Blogger

Test Case:

ID	Description	Input	Expected Result
1	Input correct format information and register as a blogger.	**Username:** Hideandseek05 **Password:** 12345 **Re-Password:** 12345 **Email:** hello@gmail.com **Role:** Blogger	True
2	Input correct format information and register as a shopkeeper.	**Username:** Hideandseek05 **Password:** 12345 **Re-Password:** 12345 **Email:** hello@gmail.com **Role:** Shopkeeper	False
3	Input username more than 20 characters.	**Username:** aaaaaaaaaaaaaaaaaaaaa **Password:** 12345 **Re-Password:** 12345 **Email:** hello@gmail.com **Role:** Blogger	False
4	Input username with symbols.	**Username:** Hello!@#$% **Password:** 12345 **Re-Password:** 12345 **Email:** hello@gmail.com **Role:** Blogger	False
5	Input the username that already exist in database.	**Username:** aaa **Password:** 12345 **Re-Password:** 12345 **Email:** hello@gmail.com **Role:** Blogger	False

6	Input password more than 20 characters information.	**Username:** Hideandseek05 **Password:** aaaaaaaaaaaaaaaaaaaaaa **Re-Password:** aaaaaaaaaaaaaaaaaaaaaa **Email:** hello@gmail.com **Role:** Blogger	False
7	Input password with symbols.	**Username:** Hideandseek05 **Password:** 12345!@#$% **Re-Password:** 12345!@#$% **Email:** hello@gmail.com **Role:** Blogger	False
8	Input Re-Password that does not match with the password.	**Username:** Hideandseek05 **Password:** 12345 **Re-Password:** aaaaa **Email:** hello@gmail.com **Role:** Blogger	False
9	Input wrong format of Email.	**Username:** Hideandseek05 **Password:** 12345 **Re-Password:** 12345 **Email:** aaaaa **Role:** Blogger	False
10	Leave some fields blank	**Username:** Hideandseek05 **Password:** 12345 **Re-Password:** 12345 **Email:** - **Role:** -	False

Mobile Unit Test Case 07 (M-UTC-07)
Method: uploadFile()
Class Name: RegisterActivity
Test Data:

Profile picture
IMG_ProfilePic.jpg

Test Case:

ID	Description	Input	Expected Result
1	Input correct profile picture	**Profile Picture:** IMG_ProfilePic.jpg	True

		format.	
2	Input wrongprofile picture format.	**Profile Picture:** IMG_ProfilePic.txt	False

Mobile Unit Test Case 08 (M-UTC-08)
 Method: OnCreate(savedInstanceState : Bundle)
Class Name: HomeBloggerActivity
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Shows the blogger home page user interface	Tab "Home"	M-UI-04

Mobile Unit Test Case 09 (M-UTC-09)
 Method: OnCreate(savedInstanceState : Bundle)
Class Name: ViewProfileDetail
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Shows the blogger profile user interface	Tab "Profile"	M-UI-13
2	Shows the shopkeeper profile user interface	Tab "Profile"	M-UI-14

Mobile Unit Test Case 10 (M-UTC-10)
Method: showInfo()
Class Name: ViewProfileDetail
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Select profile link to make sure that the system can redirect to blogger's profile page.	Tab "Profile"	True
2	Select profile link to make sure that the system can redirect to shopkeeper's profile page.	Tab "Profile"	True

Mobile Unit Test Case 11 (M-UTC-11)
Method: OnCreate(savedInstanceState : Bundle)
Class Name: ProfileManagementActivity
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Shows the edit profile user interface	Tab "Edit"	M-UI-15

Mobile Unit Test Case 12 (M-UTC-12)

Method: updateData()
Class Name: ProfileManagementActivity
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Input correct format information.	**Email:** kanom@msn.com	True
2	Input wrong format of Email.	**Email:** aaaaa	False
3	Leave some fields blank	**Email:** -	False
4	Input correct picture format.	"IMG_ProfilePic2.jpg"	True
5	Input wrong picture format.	"IMG_ProfilePic2.pptx"	False

Mobile Unit Test Case 13 (M-UTC-13)

Method: delete()
Class Name: ProfileManagementActivity
Test Data:

Profile Picture	Username	Password	Re-Password	Email	Role
IMG_ProfilePic.jpg	Hideandseek05	12345	12345	hello@gmail.com	Blogger
IMG_SProfilePic.jpg	Shop01	55555	55555	shop@gmail.com	Shopkeeper

Test Case:

ID	Description	Input	Expected Result
1	Delete the user account from database	Tab "Delete Account"	True

Mobile Unit Test Case 14 (M-UTC-14)
Method: OnCreate(savedInstanceState : Bundle)
Class Name: ChangePasswordActivity
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Shows the change password user interface	Tab "Change Password"	M-UI-16

Mobile Unit Test Case 15 (M-UTC-15)
Method: OnCreate(savedInstanceState : Bundle)
Class Name: updateData()
Test Data:

Current Password	New Password	Re-New Password
12345	00000	00000

Test Case:

ID	Description	Input	Expected Result
1	Input correct format information.	**Current password:** 12345 **New password:** 00000 **Re-New password:** 0000	True
2	Input wrong current password.	**Current password:** 55555 **New password:** 00000 **Re-New password:** 0000	False
3	Input new password more than 20 characters.	**Current password:** 12345 **New password:** aaaaaaaaaaaaaaaaaaaaa **Re-New password:** aaaaaaaaaaaaaaaaaaaaa	False
4	Input new password with symbol.	**Current password:** 12345 **New password:** 00*00 **Re-New password:** 00*00	False
5	Input re-new password that does not match with the	**Current password:** 12345 **New password:** 00000 **Re-New password:** 0011	False

6	Leave some fields blank	**Current password:** 12345 **New password:** 00000 **Re-New password:** -	False

Mobile Unit Test Case 16 (M-UTC-16)

Method: OnCreate(savedInstanceState : Bundle)
Class Name: CreateTutorial
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Shows the create tutorial user interface	Tab "Create Tutorial"	M-UI-19

Mobile Unit Test Case 17 (M-UTC-17)

Method: addData()
Class Name: CreateTutorial
Test Data:

Title	Category
Handmade Bracelet	Accessory

Test Case:

ID	Description	Input	Expected Result
1	Input correct format information	**Title:** "Handmade Bracelet" **Category:** "Accessory"	True
2	Input title more than 20 characters	**Title:** "Handmade Bracelet xxxxx" **Category:** "Accessory"	False
3	Leave category blank	**Title:** "Handmade Bracelet" **Category:** -	False

4	Leave some fields blank	**Title:** - **Category:** "Accessory"	False

Mobile Unit Test Case 18 (M-UTC-18)
Method: uploadFile()
Class Name: CreateTutorial
Test Data:

Tutorial picture
IMG_tutorial.jpg

Test Case:

ID	Description	Input	Expected Result
1	Input correct picture format	**Tutorial picture:** "IMG_tutorial.jpg"	True
2	Input wrong picture format	**Tutorial picture:** "IMG_tutorial.pttx"	False

Mobile Unit Test Case 19 (M-UTC-19)
Method: OnCreate(savedInstanceState : Bundle)
Class Name: CreateMaterial
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Shows the create material user interface	Tab "Next"	M-UI-20

Mobile Unit Test Case 20 (M-UTC-20)
Method: addData()
Class Name: CreateMaterial
Test Data:

Material description
1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin

Test Case:

ID	Description	Input	Expected Result
1	Input correct format information	**Material description:** "1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin"	True
2	Input description more than 500 characters	**Material description:** "A wonderful serenity has taken possession of my entire soul, like these sweet mornings of spring which I enjoy with my whole heart. I am alone, and feel the charm of existence in this spot, which was created for the bliss of souls like mine. I am so happy, my dear friend, so absorbed in the exquisite sense of mere tranquil existence, that I neglect my talents. I should be incapable of drawing a single stroke at the present moment; and yet I feel that I never was a greater artist than now. When, while the."	False
3	Leave blank	**Material description:** -	False

Mobile Unit Test Case 21 (M-UTC-21)
 Method: uploadFile()
Class Name: CreateMaterial
Test Data:

Material picture
IMG_material.jpg

Test Case:

ID	Description	Input	Expected Result
1	Input correct picture format	**Material picture:** "IMG_material.jpg"	True
2	Input wrong picture format	**Material picture:** "IMG_material.pttx"	False

Mobile Unit Test Case 22 (M-UTC-22)
 Method: OnCreate(savedInstanceState : Bundle)
Class Name: CreateStep
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Shows the create step user interface	Tab "Step"	M-UI-22

Mobile Unit Test Case 23 (M-UTC-23)
 Method: addData()
Class Name: CreateStep
Test Data:

Step1 description
Cut the rope to have the length as long as it can be out around your wrist.

Test Case:

ID	Description	Input	Expected Result
1	Input correct format information	**Step1 description:** "Cut the rope to have the length as long as it can be out around your wrist."	True
2	Input description more than 500 characters	**Step1 description:** "A wonderful serenity has taken possession of my entire soul, like these sweet mornings of spring which I enjoy with my whole heart. I am alone, and feel the charm of existence in this spot, which was created for the bliss of souls like mine. I am so happy, my dear friend, so absorbed in the exquisite sense of mere tranquil existence, that I neglect my talents. I should be incapable of drawing a single stroke at the present moment; and yet I feel that I never was a greater artist than now. When, while the."	False
3	Leave blank	**Step1 description:** -	False

Mobile Unit Test Case 24 (M-UTC-24)
 Method: uploadFile()
Class Name: CreateStep
Test Data:

Step1 picture
IMG_step1.jpg

Test Case:

ID	Description	Input	Expected Result
1	Input correct picture format	**Step1 picture:** "IMG_step1.jpg"	True
2	Input wrong picture format	**Step1 picture:** "IMG_step1.pttx"	False

Mobile Unit Test Case 25 (M-UTC-25)
Method: OnCreate(savedInstanceState : Bundle)
Class Name: CreateStepList
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Shows the create step list user interface	Tab "Next"	M-UI-21

Mobile Unit Test Case 26 (M-UTC-26)
Method: addData()
Class Name: CreateStepList
Test Data:

Step Number
1

Test Case:

ID	Description	Input	Expected Result
1	Input correct format information	Tab "Add Step"	True

Mobile Unit Test Case 27 (M-UTC-27)
 Method: uploadVdo()
Class Name: CreateStepList
Test Data:

Video
VDO_tutorial.mov

Test Case:

ID	Description	Input	Expected Result
1	Input correct video format	**Video:** "VDO_tutorial.mov"	True
2	Input wrong video format	**Video:** "VDO_tutorial.m4a"	False

Mobile Unit Test Case 28 (M-UTC-28)
 Method: OnCreate(savedInstanceState : Bundle)
Class Name: ManageTutorial
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Shows the manage tutorial user interface	Tab "Edit Tutorial"	M-UI-23

Mobile Unit Test Case 29 (M-UTC-29)
Method: addData()
Class Name: ManageTutorial
Test Data:

Title	Category
DIY Bracelet	Outfit

Test Case:

ID	Description	Input	Expected Result
1	Input correct format information	**Title:** "DIY Bracelet" **Category:** "Outfit"	True
2	Input title more than 20 characters	**Title:** "DIY Bracelet xxxxx" **Category:** "Outfit"	False
3	Leave category blank	**Title:** "DIY Bracelet" **Category:** -	False
4	Leave some fields blank	**Title:** - **Category:** "Outfit"	False

Mobile Unit Test Case 30 (M-UTC-30)
Method: uploadFile()
Class Name: ManageTutorial
Test Data:

Tutorial picture
IMG_tutorial2.jpg

Test Case:

ID	Description	Input	Expected Result
1	Input correct picture format	**Tutorial picture:** "IMG_tutorial2.jpg"	True

2	Input wrong picture format	**Tutorial picture:** "IMG_tutorial2.pttx"	False

Mobile Unit Test Case 31 (M-UTC-31)
Method: OnCreate(savedInstanceState : Bundle)
Class Name: ManageMaterial
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Shows the manage material user interface	Tab "Next"	M-UI-24

Mobile Unit Test Case 32 (M-UTC-32)
Method: addData()
Class Name: ManageMaterial
Test Data:

Material description
1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin 6.Color

Test Case:

ID	Description	Input	Expected Result
1	Input correct format information	**Material description:** "1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin 6.Color"	True
2	Input description more than 500 characters	**Material description:** "A wonderful serenity has taken possession of my entire soul, like these sweet mornings of spring which I enjoy with my whole heart. I am alone, and feel the charm of existence in this spot, which was created for the bliss of souls like mine. I am so happy, my dear friend, so	False

3	Leave blank	**Material description: -**	False

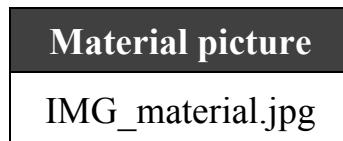*(continued from previous table)*

		absorbed in the exquisite sense of mere tranquil existence, that I neglect my talents. I should be incapable of drawing a single stroke at the present moment; and yet I feel that I never was a greater artist than now. When, while the."	
3	Leave blank	**Material description: -**	False

Mobile Unit Test Case 33 (M-UTC-33)
Method: uploadFile()
Class Name: ManageMaterial
Test Data:

Material picture
IMG_material.jpg

Test Case:

ID	Description	Input	Expected Result
1	Input correct picture format	**Material picture:** "IMG_materia2.jpg"	True
2	Input wrong picture format	**Material picture:** "IMG_material2.pttx"	False

Mobile Unit Test Case 34 (M-UTC-34)

Method: OnCreate(savedInstanceState : Bundle)
Class Name: ManageStep
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Shows the manage step user interface	Tab "Step"	M-UI-26

Mobile Unit Test Case 35 (M-UTC-35)

Method: addData()
Class Name: ManageStep
Test Data:

Step1 description	Step2 description
Cut the rope to have the length as long as it can be out around your wrist.	Now it's time to decorate!

Test Case:

ID	Description	Input	Expected Result
1	Input correct format information	**Step1 description:** "Cut the rope to have the length as long as it can be out around your wrist." **Step2 description:** "Now it's time to decorate!"	True
2	Input description more than 500 characters	**Step1 description:** "A wonderful serenity has taken possession of my entire soul, like these sweet mornings of spring which I enjoy with my whole heart. I am alone, and feel the charm of existence in this spot, which was created for the bliss of souls like mine. I am so happy, my dear friend, so absorbed in the exquisite sense of mere tranquil existence, that I neglect my talents. I should be incapable of drawing a single stroke at the present moment; and yet I feel that I never was a greater artist than now. When, while the."	False

		Step2 description: "A wonderful serenity has taken possession of my entire soul, like these sweet mornings of spring which I enjoy with my whole heart. I am alone, and feel the charm of existence in this spot, which was created for the bliss of souls like mine. I am so happy, my dear friend, so absorbed in the exquisite sense of mere tranquil existence, that I neglect my talents. I should be incapable of drawing a single stroke at the present moment; and yet I feel that I never was a greater artist than now. When, while the."	
3	Leave blank	Step1 description: - Step2 description: -	False

Mobile Unit Test Case 36 (M-UTC-36)
Method: uploadFile()
Class Name: ManageStep
Test Data:

Step1 picture	Step2 picture
IMG_step1.jpg	IMG_step2.jpg

Test Case:

ID	Description	Input	Expected Result
1	Input correct picture format	Step1 picture: "IMG_step1.jpg" Step2 picture: "IMG_step2.jpg"	True
2	Input wrong picture format	Step1 picture: "IMG_step1.pttx" Step2 picture: "IMG_step2.pttx"	False

Mobile Unit Test Case 37 (M-UTC-37)
 Method: OnCreate(savedInstanceState : Bundle)
Class Name: ManageStepList
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Shows the manage step list user interface	Tab "Next"	M-UI-25

Mobile Unit Test Case 38 (M-UTC-38)
 Method: addData()
Class Name: ManageStepList
Test Data:

Step Number
2

Test Case:

ID	Description	Input	Expected Result
1	Input correct format information	Tab "Add Step"	True

Mobile Unit Test Case 39 (M-UTC-39)
 Method: uploadVdo()
Class Name: ManageStepList
Test Data:

Video
VDO_tutorial2.mov

Test Case:

ID	Description	Input	Expected Result
1	Input correct video format	**Video:** "VDO_tutorial2.mov"	True
2	Input wrong video format	**Video:** "VDO_tutorial2.m4a"	False

Mobile Unit Test Case 40 (M-UTC-40)
 Method: OnCreate(savedInstanceState : Bundle)
Class Name: TutorialRandomActivity
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Shows the explore random tutorial by visitor user interface	Tab "Random"	M-UI-03
2	Shows the explore random tutorial by blogger user interface	Tab "Random"	M-UI-04

Mobile Unit Test Case 41 (M-UTC-41)

Method: random()
Class Name: TutorialRandomActivity
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Get random tutorials from database	Tab "Random"	True

Mobile Unit Test Case 42 (M-UTC-42)

Method: TutorialListView()
Class Name: TutorialRandomActivity
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Shows list of random tutorials.	Tab "Random"	True

Mobile Unit Test Case 43 (M-UTC-43)

Method: OnCreate(savedInstanceState : Bundle)
Class Name: TutorialPopularActivity
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Shows the explore popular tutorial by visitor user interface	Tab "Popular"	M-UI-03
2	Shows the explore popular tutorial by blogger user interface	Tab "Popular"	M-UI-04

Mobile Unit Test Case 44 (M-UTC-44)
Method: popular()
Class Name: TutorialPopularActivity
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Get most liked tutorials from database	Tab "Popular"	True

Mobile Unit Test Case 45 (M-UTC-45)
Method: TutorialListView()
Class Name: TutorialPopularActivity
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Shows list of most liked tutorials.	Tab "Popular"	True

Mobile Unit Test Case 46 (M-UTC-46)
Method: OnCreate(savedInstanceState : Bundle)
Class Name: TutorialCategoryActivity
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Shows the explore tutorial according to categories user interface	Select a category	M-UI-05

Mobile Unit Test Case 47 (M-UTC-47)

Method: category()
Class Name: TutorialCategoryActivity
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Get categories list from database	Tab "Categories"	True

Mobile Unit Test Case 48 (M-UTC-48)

Method: TutorialListView()
Class Name: TutorialCategoryActivity
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Select "Outfit" link to make sure that the system can show tutorials from outfit category.	Tab "Outfit"	True
2	Select "Accessory" link to make sure that the system can show tutorials from accessory category.	Tab "Accessory"	True
3	Select "Gift" link to make sure that the system can show tutorials from gift category.	Tab "Gift"	True
4	Select "Kid" link to make sure that the system can show tutorials from kid category.	Tab "Kid"	True
5	Select "Garden" link to make sure that the system can show tutorials from garden category.	Tab "Garden"	True

6	Select "Home Decor" link to make sure that the system can show tutorials from home decor category.	Tab "Home Decor"	True
7	Select "Pet" link to make sure that the system can show tutorials from pet category.	Tab "Pet"	True
8	Select "Other" link to make sure that the system can show tutorials from other category.	Tab "Other"	True

Mobile Unit Test Case 49 (M-UTC-49)
Method: OnCreate(savedInstanceState : Bundle)
Class Name: TutorialCategoriesList
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Shows the categories user interface	Tab "Categories"	M-UI-08

Mobile Unit Test Case 50 (M-UTC-50)
Method: categoryList()
Class Name: TutorialCategoriesList
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Get categories information from database	Tab "Categories"	True

Mobile Unit Test Case 51 (M-UTC-51)
Method: CategoryListView()
Class Name: TutorialCategoriesList
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Shows list of tutorial categories.	Tab "Categories"	True

Mobile Unit Test Case 52 (M-UTC-52)
Method: OnCreate(savedInstanceState : Bundle)
Class Name: TutorialFollowActivity
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Shows the explore following tutorial by visitor user interface	Tab "Following"	False
2	Shows the explore following tutorial by blogger user interface	Tab "Following"	M-UI-04

Mobile Unit Test Case 53 (M-UTC-53)
 Method: follow()
Class Name: TutorialFollowActivity
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Get tutorials of following bloggers from database	Tab "Following"	True

Mobile Unit Test Case 54 (M-UTC-54)
 Method: TutorialListView()
Class Name: TutorialFollowActivity
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Shows list of tutorials from following bloggers.	Tab "Following"	True

Mobile Unit Test Case 55 (M-UTC-55)
 Method: OnCreate(savedInstanceState : Bundle)
Class Name: TutorialSearchActivity
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Shows the search tutorial by visitor user interface	Keyword in search box	M-UI-03
2	Shows the search tutorial by blogger user interface	Keyword in search box	M-UI-04

Mobile Unit Test Case 56 (M-UTC-56)
 Method: search()
Class Name: TutorialSearchActivity
Test Data:

Keyword
Bracelet

Test Case:

ID	Description	Input	Expected Result
1	Get tutorials that has the searched keyword from database	Keyword "Bracelet"	True
2	No tutorial for the keyword.	Keyword "zzzzz"	False

Mobile Unit Test Case 57 (M-UTC-57)
 Method: TutorialListView()
Class Name: TutorialSearchActivity
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Shows list of tutorials that contains the searched keyword.	Keyword "Bracelet"	True
2	No tutorial for the keyword.	Keyword "zzzzz"	False

Mobile Unit Test Case 58 (M-UTC-58)
 Method: OnCreate(savedInstanceState : Bundle)
Class Name: ViewTutorialDetail
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Shows the tutorial detail user interface	Select a tutorial	M-UI-09

Mobile Unit Test Case 59 (M-UTC-59)
 Method: showInfo()
Class Name: ViewTutorialDetail
Test Data: -
Test Case:

ID	Description	Input	Expected Result
1	Select tutorial link to make sure that the system can redirect to tutorial detail page.	Select a tutorial	True

Chapter Five|
System Testing of HanDIYcraft Web Application

Web System Test Case 01 (W-STC-01): User can register to the system as a blogger.

Description

System testing for W-URS-01: The user registers as a blogger.

Prerequisite

- Username must be between 1-20 characters.
- Password must be between 1-20 characters.
- Re-Password must match with the password.
- Email must be in email format.

Test Script

1. Blogger clicks sign up link.
2. System provides registration user interface.
3. Blogger inputs information.
4. System validates the information.
5. Blogger clicks done.
6. System saves information into database.

Test Cases

ID	Description	Input	Expected Result
1	Input correct format information.	**Username:** Hideandseek05 **Password:** 12345 **Re-Password:** 12345 **Email:** hello@gmail.com	System saves information into Registered User table.
2	Input username more than 20 characters.	**Username:** aaaaaaaaaaaaaaaaaaaa **Password:** 12345 **Re-Password:** 12345 **Email:** hello@gmail.com	Error message, "The username should be between 1-20 characters."
3	Input username	**Username:** Hello!@#$% **Password:** 12345	Error message, "The username should not

		Re-Password: 12345 Email: hello@gmail.com	contain any symbols."
4	Input the username that already exist in database.	**Username:** aaa **Password:** 12345 **Re-Password:** 12345 **Email:** hello@gmail.com	Error message, "This username is already in use."
5	Input password more than 20 characters information.	**Username:** Hideandseek05 **Password:** aaaaaaaaaaaaaaaaaaaaaa **Re-Password:** aaaaaaaaaaaaaaaaaaaaaa **Email:** hello@gmail.com	Error message, "The password should be between 1-20 characters."
6	Input password with symbols.	**Username:** Hideandseek05 **Password:** 12345!@#$% **Re-Password:** 12345!@#$% **Email:** hello@gmail.com	Error message, "The password should not contain any symbols."
7	Input Re-Password that does not match with the password.	**Username:** Hideandseek05 **Password:** 12345 **Re-Password:** aaaaa **Email:** hello@gmail.com	Error message, "Re-password is not matching with your password."
8	Input wrong format of Email.	**Username:** Hideandseek05 **Password:** 12345 **Re-Password:** 12345 **Email:** aaaaa	Error message, "The email should be in email format."
9	Leave some fields blank	**Username:** Hideandseek05 **Password:** 12345 **Re-Password:** - **Email:** -	Error message, "Please fill all information, don't leave blank."

Web System Test Case 02 (W-STC-02): Blogger can log into access the system.

Description

System testing for W-URS-02: The user logins to the system.

Prerequisite

- Username "Hideandseek05" must be already added into Registered User table.
- Password "12345" must be already added into Registered User table.

Test Script

1. Blogger inputs username and password.
2. Blogger clicks log in button.
3. System verifies username and password.
4. System allows blogger to access to homepage.

Test Cases

ID	Description	Input	Expected Result
1	Input valid username and password.	**Username:** Hideandseek05 **Password:** 12345	System goes to homepage for blogger.
2	Input invalid username or password.	**Username:** xxxxx **Password:** xxxxx	Error message, "Invalid username or password."
3	Leave some fields blank	**Username:** - **Password:** 12345	Error message, "Please fill all information, don't leave blank."

Web System Test Case 03 (W-STC-03): Blogger can log out from the system.

Description

System testing for W-URS-03: The user logouts from the system.

Prerequisite

• Blogger has logged in.

Test Script

1. Blogger clicks log out.
2. System goes to homepage for unlogged in user.

Test Cases

ID	Description	Input	Expected Result
1	Select log out link to make sure that the system is able to let blogger log out from the system.	Click "Log out"	System goes to homepage for visitor.

Web System Test Case 04 (W-STC-04): Blogger can see his/her profile information.

Description

System testing for W-URS-04: The user sees his/her profile.

Prerequisite

• Blogger has logged in.

Test Script

1. Blogger clicks profile link.
2. System goes profile page.
3. System displays blogger's information and tutorials.

Test Cases

ID	Description	Input	Expected Result
1	Select profile link to make sure that the system can redirect to blogger's profile page.	Click "Profile"	System displays blogger's information, which are profile picture, username, follower number, following number, email, and list of created tutorials with tutorial picture, title, owner username, and number of likes.

Web System Test Case 05 (W-STC-05): Blogger can edit his/her email.

Description
> System testing for W-URS-05: The user edits his/her email.

Prerequisite
- Username "Hideandseek05" must be already added into Registered User table.
- Password "12345" must be already added into Registered User table.
- Email "hello@gmail.com" must be already added into Registered User table.

Test Script
1. Blogger clicks profile link.
2. System goes profile page.
3. System displays blogger's information and tutorials.
4. Blogger clicks edit link.
5. System provides editable fields for blogger to edit information.
6. Blogger inputs new information.
7. Blogger clicks save.
8. System updates new information into database.

Test Cases

ID	Description	Input	Expected Result
1	Input correct format information.	**Email:** kanom@msn.com	System saves information into Registered User table.
2	Input wrong format of Email.	**Email:** aaaaa	Error message, "The email should be in email format."
3	Leave some fields blank	**Email:** -	Error message, "Please fill all information, don't leave blank."

Web System Test Case 06 (W-STC-06): Blogger can add his/her profile picture.

Description

System testing for W-URS-06: The user adds profile picture.

Prerequisite

- Username "Hideandseek05" must be already added into Registered User table.
- Password "12345" must be already added into Registered User table.
- Email "hello@gmail.com" must be already added into Registered User table.

Test Script

1. Blogger clicks profile link.
2. System goes profile page.
3. System displays blogger's information and tutorials.
4. Blogger clicks edit link.
5. System provides editable fields for blogger to edit information.
6. Blogger clicks browse and upload picture.
7. Blogger clicks save.
8. System adds the picture into database.

Test Cases

ID	Description	Input	Expected Result
1	Input correct picture format.	"IMG_ProfilePic.jpg"	System adds picture into Registered User table.
2	Input wrong picture format.	"IMG_ProfilePic.pptx"	Error message, "The picture must be .png/.jpg file."

Web System Test Case 07 (W-STC-07): Blogger can change his/her profile picture.

Description

System testing for W-URS-07: The user changes profile picture.

Prerequisite

- Profile picture "IMG_ProfilePic.jpg" must be already added into Registered User table.

Test Script

1. Blogger clicks profile link.
2. System goes profile page.
3. System displays blogger's information and tutorials.
4. Blogger clicks edit link.
5. System provides editable fields for blogger to edit information.
6. Blogger clicks browse and upload picture.
7. Blogger clicks save.
8. System updates new picture into database.

Test Cases

ID	Description	Input	Expected Result
1	Input correct picture format.	"IMG_ProfilePic2.jpg"	System updates new picture into Registered User table.
2	Input wrong picture format.	"IMG_ProfilePic2.pptx"	Error message, "The picture must be .png/.jpg file."

Web System Test Case 08 (W-STC-08): Blogger can change his/her password.

Description

System testing for W-URS-08: The user changes his/her password.

Prerequisite

- Password "12345" must be already added into Registered User table.

Test Script

1. Blogger clicks profile link.
2. System goes profile page.
3. System displays blogger's information and tutorials.
4. Blogger clicks edit link.
5. System provides editable fields for blogger to edit information.
6. Blogger change password link.
7. System provides change password interface.
8. Blogger inputs information.
9. Blogger clicks save.
10. System updates new password into database.

Test Cases

ID	Description	Input	Expected Result
1	Input correct format information.	**Current password:** 12345 **New password:** 00000 **Re-New password:** 0000	System updates new password into Registered User table.
2	Input wrong current password.	**Current password:** 55555 **New password:** 00000 **Re-New password:** 0000	Error message, "Your current password is wrong, please try again."
3	Input new password more than 20 characters.	**Current password:** 12345 **New password:** aaaaaaaaaaaaaaaaaaaaa **Re-New password:** aaaaaaaaaaaaaaaaaaaaa	Error message, "The password should be between 1-20 characters."
4	Input new password with symbol.	**Current password:** 12345 **New password:** 00*00 **Re-New password:** 00*00	Error message, "The password should not contain any symbols."
5	Input re-new password that does not match with the	**Current password:** 12345 **New password:** 00000 **Re-New password:** 0011	Error message, "Re-new password is not matching with your

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		Current password: 12345 New password: 00000 Re-New password: -	Error message, "Please fill all information, don't leave blank."
	new password.		new password."
6	Leave some fields blank	Current password: 12345 New password: 00000 Re-New password: -	Error message, "Please fill all information, don't leave blank."

Web System Test Case 09 (W-STC-09): Blogger can delete his/her account.

Description

System testing for W-URS-09: The user deletes his/her account.

Prerequisite

• Blogger has logged in.

Test Script

1. Blogger clicks profile link.
2. System goes profile page.
3. System displays blogger's information and tutorials.
4. Blogger clicks edit link.
5. System provides editable fields for blogger to edit information.
6. Blogger delete account link.
7. System display confirmation message.
8. Blogger clicks yes to confirm the process.
9. System deletes blogger's information from database.

Test Cases

ID	Description	Input	Expected Result
1	Select delete account link to make sure that the system is able to delete the account from database.	Click "Delete account"	System removes the blogger's information from Registered User table.

Web System Test Case 10 (W-STC-10): Blogger can see tutorial by random.

Description
System testing for W-URS-10: The user sees tutorials by random.

Prerequisite
- Tutorial "Tutorial01" must be already added into Tutorial table.
- Tutorial "Tutorial02" must be already added into Tutorial table.
- Tutorial "Tutorial03" must be already added into Tutorial table.

Test Script
1. Blogger clicks random link.
2. System displays list of tutorials that exist in database randomly.

Test Cases

ID	Description	Input	Expected Result
1	Select "Random" link to make sure that the system can show tutorials randomly.	Click "Random"	System displays list of tutorials with tutorial picture, title, owner username, and number of likes randomly.

Web System Test Case 11 (W-STC-11): Blogger can see tutorial by popular.

Description

System testing for W-URS-11: The user sees tutorials by popular.

Prerequisite

- Tutorial "Tutorial01" must be already added into Tutorial table.
- Tutorial "Tutorial02" must be already added into Tutorial table.
- Tutorial "Tutorial03" must be already added into Tutorial table.

Test Script

1. Blogger clicks popular link.
2. System displays list of most liked tutorials that exist in database.

Test Cases

ID	Description	Input	Expected Result
1	Select "Popular" link to make sure that the system can show tutorials that has mostly liked.	Click "Popular"	System displays list of tutorials with tutorial picture, title, owner username, and number of likes that has mostly liked.

Web System Test Case 12 (W-STC-12): Blogger can see tutorial by categories.

Description

System testing for W-URS-12: The user sees tutorials by categories.

Prerequisite
- Tutorial "Tutorial01" must be already added into Tutorial table.
- Tutorial "Tutorial02" must be already added into Tutorial table.
- Tutorial "Tutorial03" must be already added into Tutorial table.

Test Script
1. Blogger select a category.
2. System displays tutorials that exist in the category.

Test Cases

ID	Description	Input	Expected Result
1	Select "Outfit" link to make sure that the system can show tutorials from outfit category.	"Outfit"	System displays list of tutorials with tutorial picture, title, owner username, and number of likes from outfit category.
2	Select "Accessory" link to make sure that the system can show tutorials from accessory category.	"Accessory"	System displays list of tutorials with tutorial picture, title, owner username, and number of likes from accessory category.
3	Select "Gift" link to make sure that the system can show tutorials from gift category.	"Gift"	System displays list of tutorials with tutorial picture, title, owner username, and number of likes from gift category.
4	Select "Kid" link to make sure that the system can show tutorials from kid category.	"Kid"	System displays list of tutorials with tutorial picture, title, owner username, and number of likes from kid category.

5	Select "Garden" link to make sure that the system can show tutorials from garden category.	"Garden"	System displays list of tutorials with tutorial picture, title, owner username, and number of likes from garden category.
6	Select "Home Decor" link to make sure that the system can show tutorials from home decor category.	"Home Decor"	System displays list of tutorials with tutorial picture, title, owner username, and number of likes from home decor category.
7	Select "Pet" link to make sure that the system can show tutorials from pet category.	"Pet"	System displays list of tutorials with tutorial picture, title, owner username, and number of likes from pet category.
8	Select "Other" link to make sure that the system can show tutorials from other category.	"Other"	System displays list of tutorials with tutorial picture, title, owner username, and number of likes from other category.

Web System Test Case 13 (W-STC-13): Blogger can see tutorial by searching.

Description

   System testing for W-URS-13: The user sees tutorials by searching.

Prerequisite

   • Tutorial "Tutorial01" must be already added into Tutorial table.
   • Tutorial "Tutorial02" must be already added into Tutorial table.
   • Tutorial "Tutorial03" must be already added into Tutorial table.

Test Script

   1. Blogger input a character/keyword into the search box.
   2. System displays tutorials that contain the character/keyword.

Test Cases

ID	Description	Input	Expected Result
1	Input a keyword that is contained in tutorial.	"Tutorial01"	System displays list of tutorials with tutorial picture, title, owner username, and number of likes that contain the word "Tutorial01"
2	Input a character that is contained in tutorial.	"T"	System displays list of tutorials with tutorial picture, title, owner username, and number of likes that contain the character "T"
3	Input a character that does not contained in tutorial.	"Z"	Error message, "No result."

Web System Test Case 14 (W-STC-14): Blogger can see tutorial by following.

Description

System testing for W-URS-14: The user sees tutorials by following.

Prerequisite

- Tutorial "Tutorial01" must be already added into Tutorial table.
- Tutorial "Tutorial02" must be already added into Tutorial table.
- Tutorial "Tutorial03" must be already added into Tutorial table.

Test Script

1. Blogger clicks following link.
2. System displays tutorials from people that the blogger is following.

Test Cases

ID	Description	Input	Expected Result
1	Select "Following" link to make sure that the system can show tutorials from following people.	Click "Following"	System displays list of tutorials with tutorial picture, title, owner username, and number of likes from following people.
2	No following people	Click "Following"	Error message, "You have not followed anyone yet."

Web System Test Case 15 (W-STC-15): Blogger can see tutorial detail.

Description
System testing for W-URS-15: The user sees tutorial information.

Prerequisite
- Tutorial "Tutorial01" must be already added into Tutorial table.
- Tutorial "Tutorial02" must be already added into Tutorial table.
- Tutorial "Tutorial03" must be already added into Tutorial table.

Test Script
1. Blogger clicks tutorial link.
2. System goes tutorial detail page.
3. System displays tutorial's information.

Test Cases

ID	Description	Input	Expected Result
1	Select "Tutorial01" link to make sure that the system can redirect to tutorial detail page.	Click "Tutorial01"	System displays Tutorial01's information, which are title, owner username, number of likes, category, material description, material picture, step description, step picture, video, and comments.

Web System Test Case 16 (W-STC-16): Blogger can create his/her own tutorial.

Description

System testing for W-URS-16: The user creates his/her own tutorial.

Prerequisite

- Blogger has logged in.

Test Script

1. Blogger clicks create tutorial link.
2. System goes to create tutorial page.
3. System provides creating tutorial fields for blogger to input tutorial information.
4. Blogger inputs tutorial information.
5. Blogger clicks done.
6. System saves tutorial information into database.

Test Cases

ID	Description	Input	Expected Result
1	Input correct format information	**Tutorial picture:** "IMG_tutorial.jpg" **Title:** "Handmade Bracelet" **Category:** "Accessory" **Material picture:** "IMG_material.jpg" **Material description:** "1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin" **Step:** "1" **Step1 picture:** "IMG_step1.jpg" **Step1 description:** "Cut the rope to have the length as long as it can be out around your wrist." **Video:** "VDO_tutorial.mov"	System saves information into Tutorial table.

2	Input wrong picture format	**Tutorial picture:** "IMG_tutorial.pptx" **Title:** "Handmade Bracelet" **Category:** "Accessory" **Material picture:** "IMG_material.jpg" **Material description:** "1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin" **Step:** "1" **Step1 picture:** "IMG_step1.pptx" **Step1 description:** "Cut the rope to have the length as long as it can be out around your wrist." **Video:** "VDO_tutorial.mov"	Error message, "The picture must be .png/.jpg file."
3	Input title more than 20 characters	**Tutorial picture:** "IMG_tutorial.jpg" **Title:** "Handmade Bracelet xxxxx" **Category:** "Accessory" **Material picture:** "IMG_material.jpg" **Material description:** "1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin" **Step:** "1" **Step1 picture:** "IMG_step1.jpg" **Step1 description:** "Cut the rope to have the length as long as it can be out around your wrist." **Video:** "VDO_tutorial.mov"	Error message, "The title should be between 1-20 characters."
4	Leave category blank	**Tutorial picture:** "IMG_tutorial.jpg" **Title:** "Handmade Bracelet" **Category:** - **Material picture:** "IMG_material.jpg" **Material description:** "1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin" **Step:** "1" **Step1 picture:** "IMG_step1.jpg" **Step1 description:** "Cut the rope to have the length as long as it can be out around your wrist." **Video:** "VDO_tutorial.mov"	Error message, "Please select a category."

| 5 | Input description more than 500 characters | **Tutorial picture:** "IMG_tutorial.jpg"
 Title: "Handmade Bracelet"
 Category: "Accessory"
 Material picture: "IMG_material.jpg"
 Material description: "1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin"
 Step: "1"
 Step1 picture: "IMG_step1.jpg"
 Step1 description: "A wonderful serenity has taken possession of my entire soul, like these sweet mornings of spring which I enjoy with my whole heart. I am alone, and feel the charm of existence in this spot, which was created for the bliss of souls like mine. I am so happy, my dear friend, so absorbed in the exquisite sense of mere tranquil existence, that I neglect my talents. I should be incapable of drawing a single stroke at the present moment; and yet I feel that I never was a greater artist than now. When, while the."
 Video: "VDO_tutorial.mov" | Error message, "The description should be between 1-500 characters." |
| 6 | Input step more than 6 | **Tutorial picture:** "IMG_tutorial.jpg"
 Title: "Handmade Bracelet"
 Category: "Accessory"
 Material picture: "IMG_material.jpg"
 Material description: "1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin"
 Step: "10"
 Step1 picture: "IMG_step1.jpg"
 Step1 description: "Cut the rope to have the length as long as it can be out around your wrist."
 Video: "VDO_tutorial.mov" | Error message, "The step number should be between 1-6." |

7	Leave step blank	**Tutorial picture:** "IMG_tutorial.jpg" **Title:** "Handmade Bracelet" **Category:** "Accessory" **Material picture:** "IMG_material.jpg" **Material description:** "1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin" **Step:** - **Step1 picture:** "IMG_step1.jpg" **Step1 description:** "Cut the rope to have the length as long as it can be out around your wrist." **Video:** "VDO_tutorial.mov"	Error message, "Please input number of step."
8	Input wrong video format	**Tutorial picture:** "IMG_tutorial.jpg" **Title:** "Handmade Bracelet" **Category:** "Accessory" **Material picture:** "IMG_material.jpg" **Material description:** "1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin" **Step:** "1" **Step1 picture:** "IMG_step1.jpg" **Step1 description:** "Cut the rope to have the length as long as it can be out around your wrist." **Video:** "VDO_tutorial.m4a"	Error message, "The video must be .mov file."
9	Leave some fields blank	**Tutorial picture:** "IMG_tutorial.jpg" **Title:** - **Category:** "Accessory" **Material picture:** - **Material description:** - **Step:** "1" **Step1 picture:** "IMG_step1.jpg" **Step1 description:** - **Video:** "VDO_tutorial.mov"	Error message, "Please fill all information, don't leave blank."

Web System Test Case 17 (W-STC-17): Blogger can see his/her own tutorials.

Description

System testing for W-URS-17: The user sees his/her own tutorial.

Prerequisite

- Blogger's tutorial "Handmade Bracelet" must be already added into Tutorial table.

Test Script

1. Blogger clicks profile link.
2. System goes profile page.
3. System displays blogger's information and tutorials.

Test Cases

ID	Description	Input	Expected Result
1	Select profile link to make sure that the system can redirect to blogger's profile page.	Click "Handmade Bracelet" tutorial	System displays blogger's information, which are profile picture, username, follower number, following number, email, and list of created tutorials with tutorial picture, title, owner username, and number of likes.

Web System Test Case 18 (W-STC-18): Blogger can edit his/her own tutorial.

Description
　　　System testing for W-URS-18: The user edits his/her own tutorial.

Prerequisite
- Blogger's tutorial "Handmade Bracelet" must be already added into Tutorial table.

Test Script
1. Blogger clicks profile link.
2. System goes profile page.
3. System displays blogger's information and tutorials.
4. Blogger selects a tutorial that he/she wants to edit.
5. System provides editable fields for blogger to edit tutorial information.
6. Blogger inputs new tutorial information.
7. Blogger clicks save.
8. System updates new tutorial information into database.

Test Cases

ID	Description	Input	Expected Result
1	Input correct format information	**Tutorial picture:** "IMG_tutorial2.jpg" **Title:** "DIY Bracelet" **Category:** "Outfit" **Material picture:** "IMG_material2.jpg" **Material description:** "1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin 6.Color" **Step:** "2" **Step1 picture:** "IMG_step1.jpg" **Step1 description:** "Cut the rope to have the length as long as it can be out around your wrist." **Step2 picture:** "IMG_step2.jpg" **Step2 description:** "Now it's time to decorate!" **Video:** "VDO_tutorial.mov"	System updates new information into Tutorial table.

2	Input wrong picture format	**Tutorial picture:** "IMG_tutorial2.pptx" **Title:** "DIY Bracelet" **Category:** "Outfit" **Material picture:** "IMG_material2. pptx" **Material description:** "1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin 6.Color" **Step:** "2" **Step1 picture:** "IMG_step1. pptx" **Step1 description:** "Cut the rope to have the length as long as it can be out around your wrist." **Step2 picture:** "IMG_step2. pptx" **Step2 description:** "Now it's time to decorate!" **Video:** "VDO_tutorial.mov"	Error message, "The picture must be .png/.jpg file."
3	Input title more than 20 characters	**Tutorial picture:** "IMG_tutorial2.jpg" **Title:** "DIY Bracelet xxxxxxxxxxxxxx" **Category:** "Outfit" **Material picture:** "IMG_material2.jpg" **Material description:** "1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin 6.Color" **Step:** "2" **Step1 picture:** "IMG_step1.jpg" **Step1 description:** "Cut the rope to have the length as long as it can be out around your wrist." **Step2 picture:** "IMG_step2.jpg" **Step2 description:** "Now it's time to decorate! **Video:** "VDO_tutorial.mov"	Error message, "The title should be between 1-20 characters."

| 4 | Leave category blank | **Tutorial picture:** "IMG_tutorial2.jpg"
Title: "DIY Bracelet"
Category: -
Material picture: "IMG_material2.jpg"
Material description: "1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin 6.Color"
Step: "2"
Step1 picture: "IMG_step1.jpg"
Step1 description: "Cut the rope to have the length as long as it can be out around your wrist."
Step2 picture: "IMG_step2.jpg"
Step2 description: "Now it's time to decorate!"
Video: "VDO_tutorial.mov" | Error message, "Please select a category." |
| 5 | Input description more than 500 characters | **Tutorial picture:** "IMG_tutorial2.jpg"
Title: "DIY Bracelet"
Category: "Outfit"
Material picture: "IMG_material2.jpg"
Material description: "1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin 6.Color"
Step: "2"
Step1 picture: "IMG_step1.jpg"
Step1 description: "Cut the rope to have the length as long as it can be out around your wrist."
Step2 picture: "IMG_step2.jpg"
Step2 description: "A wonderful serenity has taken possession of my entire soul, like these sweet mornings of spring which I enjoy with my whole heart. I am alone, and feel the charm of existence in this spot, which was created for the bliss of souls like mine. I am so happy, my dear friend, so absorbed in the exquisite sense of mere tranquil existence, that I neglect my talents. I should be incapable of drawing a single stroke at the present moment; and yet I feel that I never was a greater artist than now. When, while the."
Video: "VDO_tutorial.mov" | Error message, "The description should be between 1-500 characters." |

6	Input step more than 6	**Tutorial picture:** "IMG_tutorial2.jpg" **Title:** "DIY Bracelet" **Category:** "Outfit" **Material picture:** "IMG_material2.jpg" **Material description:** "1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin 6.Color" **Step:** "10" **Step1 picture:** "IMG_step1.jpg" **Step1 description:** "Cut the rope to have the length as long as it can be out around your wrist." **Step2 picture:** "IMG_step2.jpg" **Step2 description:** "Now it's time to decorate!" **Video:** "VDO_tutorial.mov"	Error message, "The step number should be between 1-6."
7	Leave step blank	**Tutorial picture:** "IMG_tutorial2.jpg" **Title:** "DIY Bracelet" **Category:** "Outfit" **Material picture:** "IMG_material2.jpg" **Material description:** "1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin 6.Color" **Step:** - **Step1 picture:** "IMG_step1.jpg" **Step1 description:** "Cut the rope to have the length as long as it can be out around your wrist." **Step2 picture:** "IMG_step2.jpg" **Step2 description:** "Now it's time to decorate!" **Video:** "VDO_tutorial.mov"	Error message, "Please input number of step."
8	Input wrong video format	**Tutorial picture:** "IMG_tutorial2.jpg" **Title:** "DIY Bracelet" **Category:** "Outfit" **Material picture:** "IMG_material2.jpg" **Material description:** "1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin 6.Color" **Step:** "2" **Step1 picture:** "IMG_step1.jpg" **Step1 description:** "Cut the rope to have the length as long as it can be out around your wrist."	Error message, "The video must be .mov file."

9	Leave some fields blank	**Step2 picture:** "IMG_step2.jpg" **Step2 description:** "Now it's time to decorate!" **Video:** "VDO_tutorial.m4a"	
9	Leave some fields blank	**Tutorial picture:** "IMG_tutorial2.jpg" **Title:** - **Category:** "Outfit" **Material picture:** - **Material description:** - **Step:** "2" **Step1 picture:** "IMG_step1.jpg" **Step1 description:** - **Step2 picture:** "IMG_step2.jpg" **Step2 description:** "Now it's time to decorate!" **Video:** "VDO_tutorial.mov"	Error message, "Please fill all information, don't leave blank."

Web System Test Case 19 (W-STC-19): Blogger can delete his/her own tutorial.

Description
> System testing for W-URS-19: The user deletes his/her own tutorial.

Prerequisite
> • Blogger's tutorial "Handmade Bracelet" must be already added into Tutorial table.

Test Script
> 1. Blogger clicks profile link.
> 2. System goes profile page.
> 3. System displays blogger's information and tutorials.
> 4. Blogger selects a tutorial that he/she wants to edit.
> 5. System provides edit tutorial interface.
> 6. Blogger clicks delete tutorial.
> 7. System deletes the tutorial from database.

Test Cases

ID	Description	Input	Expected Result
1	Select delete tutorial link to make sure that the system is able to delete the tutorial from database.	Click "Delete tutorial"	System removes the tutorial from Tutorial table.

Chapter Six | System Testing of HanDIYcraft Android Application

Mobile System Test Case 01 (M-STC-01): User can register to the system as a blogger.

Description

 System testing for M-URS-01: The user registers as a blogger or shopkeeper.

Prerequisite

- Username must be between 1-20 characters.
- Password must be between 1-20 characters.
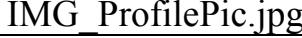- Re-Password must match with the password.
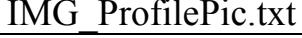- Email must be in email format.

Test Script

1. Blogger clicks sign up link.
2. System provides registration user interface.
3. Blogger inputs information.
4. System validates the information.
5. Blogger clicks done.
6. System saves information into database.

Test Cases

ID	Description	Input	Expected Result
1	Input correct format information and register as a blogger.	**Username:** Hideandseek05 **Password:** 12345 **Re-Password:** 12345 **Email:** hello@gmail.com **Role:** Blogger **Profile Picture:** IMG_ProfilePic.jpg	System saves information into Registered User table. Successful message, "You are now a blogger, please log in."
2	Input correct format information	**Username:** Hideandseek05 **Password:** 12345 **Re-Password:** 12345	System saves information into Registered User table.

	and register as a shopkeeper.	**Email:** hello@gmail.com **Role:** Shopkeeper **Profile Picture:** IMG_ProfilePic.jpg	Successful message, "You are now a shopkeeper, please log in."
3	Input username more than 20 characters.	**Username:** aaaaaaaaaaaaaaaaaaaaa **Password:** 12345 **Re-Password:** 12345 **Email:** hello@gmail.com **Role:** Blogger **Profile Picture:** IMG_ProfilePic.jpg	Error message, "The username should be between 1-20 characters."
4	Input username with symbols.	**Username:** Hello!@#$% **Password:** 12345 **Re-Password:** 12345 **Email:** hello@gmail.com **Role:** Blogger **Profile Picture:** IMG_ProfilePic.jpg	Error message, "The username should not contain any symbols."
5	Input the username that already exist in database.	**Username:** aaa **Password:** 12345 **Re-Password:** 12345 **Email:** hello@gmail.com **Role:** Blogger **Profile Picture:** IMG_ProfilePic.jpg	Error message, "This username is already in use."
6	Input password more than 20 characters information.	**Username:** Hideandseek05 **Password:** aaaaaaaaaaaaaaaaaaaaa **Re-Password:** aaaaaaaaaaaaaaaaaaaaa **Email:** hello@gmail.com **Role:** Blogger **Profile Picture:** IMG_ProfilePic.jpg	Error message, "The password should be between 1-20 characters."
7	Input password with symbols.	**Username:** Hideandseek05 **Password:** 12345!@#$% **Re-Password:** 12345!@#$% **Email:** hello@gmail.com **Role:** Blogger **Profile Picture:** IMG_ProfilePic.jpg	Error message, "The password should not contain any symbols."

8	Input Re-Password that does not match with the password.	**Username:** Hideandseek05 **Password:** 12345 **Re-Password:** aaaaa **Email:** hello@gmail.com **Role:** Blogger **Profile Picture:** IMG_ProfilePic.jpg	Error message, "Re-password is not matching with your password."
9	Input wrong format of Email.	**Username:** Hideandseek05 **Password:** 12345 **Re-Password:** 12345 **Email:** aaaaa **Role:** Blogger **Profile Picture:** IMG_ProfilePic.jpg	Error message, "The email should be in email format."
10	Input wrong format of Profile picture.	**Username:** Hideandseek05 **Password:** 12345 **Re-Password:** 12345 **Email:** hello@gmail.com **Role:** Blogger **Profile Picture:** IMG_ProfilePic.txt	Error message, "The picture must be .png/.jpg file."
11	Leave some fields blank	**Username:** Hideandseek05 **Password:** 12345 **Re-Password:** 12345 **Email:** - **Role:** - **Profile Picture:** IMG_ProfilePic.jpg	Error message, "Please fill all information, don't leave blank."

Mobile System Test Case 02 (M-STC-02): Blogger/Shopkeeper can log into access the system.

Description

System testing for M-URS-02: The user logins to the system.

Prerequisite

- Username "Hideandseek05" must be already added into Registered User table.
- Password "12345" must be already added into Registered User table.

Test Script

1. Blogger/Shopkeeper inputs username and password.
2. Blogger/Shopkeeper clicks log in button.
3. System verifies username and password.
4. System allows blogger to access to homepage.

Test Cases

ID	Description	Input	Expected Result
1	Input valid username and password.	**Username:** Hideandseek05 **Password:** 12345	System goes to homepage for blogger/shopkeeper.
2	Input invalid username or password.	**Username:** xxxxx **Password:** xxxxx	Error message, "Invalid username or password."
3	Leave some fields blank	**Username:** - **Password:** 12345	Error message, "Please fill all information, don't leave blank."

Mobile System Test Case 03 (M-STC-03): Blogger/Shopkeeper can log out from the system.

Description

System testing for M-URS-03: The user logouts from the system.

Prerequisite

• Blogger/Shopkeeper has logged in.

Test Script

1. Blogger/Shopkeeper clicks log out.
2. System goes to homepage for unlogged in user.

Test Cases

ID	Description	Input	Expected Result
1	Select log out link to make sure that the system is able to let blogger log out from the system.	Tab "Log out"	System goes to homepage for visitor.

Mobile System Test Case 04 (M-STC-04): Blogger/Shopkeeper can see his/her profile information.

Description

System testing for M-URS-04: The user sees his/her profile.

Prerequisite

- Blogger/Shopkeeper has logged in.

Test Script

1. Blogger/Shopkeeper clicks profile link.
2. System goes profile page.
3. System displays blogger's information and tutorials.

Test Cases

ID	Description	Input	Expected Result
1	Select profile link to make sure that the system can redirect to blogger's profile page.	Tab "Profile"	System displays blogger's information, which are profile picture, username, follower number, following number, email, and list of created tutorials with tutorial picture, title, owner username, and number of likes.
2	Select profile link to make sure that the system can redirect to shopkeeper's profile page.	Tab "Profile"	System displays shopkeeper's information, which are profile picture, username, and email.

Mobile System Test Case 05 (M-STC-05): Blogger/Shopkeeper can edit his/her information.

Description

System testing for M-URS-05: The user edits his/her information.

Prerequisite

- Username "Hideandseek05" must be already added into Registered User table.
- Password "12345" must be already added into Registered User table.
- Email "hello@gmail.com" must be already added into Registered User table.

Test Script

1. Blogger/Shopkeeper clicks profile link.
2. System goes profile page.
3. System displays blogger's information and tutorials.
4. Blogger/Shopkeeper clicks edit link.
5. System provides editable fields for blogger to edit information.
6. Blogger/Shopkeeper inputs new information.
7. Blogger/Shopkeeper clicks save.
8. System updates new information into database.

Test Cases

ID	Description	Input	Expected Result
1	Input correct format information.	**Email:** kanom@msn.com	System saves information into Registered User table.
2	Input wrong format of Email.	**Email:** aaaaa	Error message, "The email should be in email format."
3	Leave some fields blank	**Email:** -	Error message, "Please fill all information, don't leave blank."

Mobile System Test Case 06 (M-STC-06): Blogger/Shopkeeper can change his/her profile picture.

Description

    System testing for M-URS-06: The user changes profile picture.

Prerequisite

- Profile picture "IMG_ProfilePic.jpg" must be already added into Registered User table.

Test Script

1. Blogger/Shopkeeper clicks profile link.
2. System goes profile page.
3. System displays blogger's information and tutorials.
4. Blogger/Shopkeeper clicks edit link.
5. System provides editable fields for blogger to edit information.
6. Blogger/Shopkeeper clicks browse and upload picture.
7. Blogger/Shopkeeper clicks save.
8. System updates new picture into database.

Test Cases

ID	Description	Input	Expected Result
1	Input correct picture format.	"IMG_ProfilePic2.jpg"	System updates new picture into Registered User table.
2	Input wrong picture format.	"IMG_ProfilePic2.pptx"	Error message, "The picture must be .png/.jpg file."

Mobile System Test Case 07 (M-STC-07): Blogger/Shopkeeper can change his/her password.

Description

System testing for M-URS-07: The user changes his/her password.

Prerequisite

• Password "12345" must be already added into Registered User table.

Test Script

1. Blogger/Shopkeeper clicks profile link.
2. System goes profile page.
3. System displays blogger's information and tutorials.
4. Blogger/Shopkeeper clicks edit link.
5. System provides editable fields for blogger to edit information.
6. Blogger/Shopkeeper change password link.
7. System provides change password interface.
8. Blogger/Shopkeeper inputs information.
9. Blogger/Shopkeeper clicks save.
10. System updates new password into database.

Test Cases

ID	Description	Input	Expected Result
1	Input correct format information.	**Current password:** 12345 **New password:** 00000 **Re-New password:** 0000	System updates new password into Registered User table.
2	Input wrong current password.	**Current password:** 55555 **New password:** 00000 **Re-New password:** 0000	Error message, "Your current password is wrong, please try again."
3	Input new password more than 20 characters.	**Current password:** 12345 **New password:** aaaaaaaaaaaaaaaaaaaaa **Re-New password:** aaaaaaaaaaaaaaaaaaaaa	Error message, "The password should be between 1-20 characters."
4	Input new password with symbol.	**Current password:** 12345 **New password:** 00*00 **Re-New password:** 00*00	Error message, "The password should not contain any symbols."
5	Input re-new password that does	**Current password:** 12345 **New password:** 00000	Error message, "Re-new password is not

	not match with the new password.	Re-New password: 0011	matching with your new password."
6	Leave some fields blank	Current password: 12345 New password: 00000 Re-New password: -	Error message, "Please fill all information, don't leave blank."

Mobile System Test Case 08 (M-STC-08): Blogger/Shopkeeper can delete his/her account.

Description

System testing for M-URS-08: The user deletes his/her account.

Prerequisite

• Blogger/Shopkeeper has logged in.

Test Script

1. Blogger/Shopkeeper clicks profile link.
2. System goes profile page.
3. System displays blogger's information and tutorials.
4. Blogger/Shopkeeper clicks edit link.
5. System provides editable fields for blogger to edit information.
6. Blogger/Shopkeeper delete account link.
7. System display confirmation message.
8. Blogger/Shopkeeper clicks yes to confirm the process.
9. System deletes blogger's information from database.

Test Cases

ID	Description	Input	Expected Result
1	Select delete account link to make sure that the system is able to delete the account from database.	Tab "Delete account"	System removes the blogger's/shopkeeper's information from Registered User table.

Mobile System Test Case 09 (M-STC-09): Blogger can see tutorial by random.

Description

System testing for M-URS-09: The user sees tutorials by random.

Prerequisite
- Tutorial "Tutorial01" must be already added into Tutorial table.
- Tutorial "Tutorial02" must be already added into Tutorial table.
- Tutorial "Tutorial03" must be already added into Tutorial table.

Test Script
1. Blogger clicks random link.
2. System displays list of tutorials that exist in database randomly.

Test Cases

ID	Description	Input	Expected Result
1	Select "Random" link to make sure that the system can show tutorials randomly.	Tab "Random"	System displays list of tutorials with tutorial picture, title, owner username, and number of likes randomly.

Mobile System Test Case 10 (M-STC-10): Blogger can see tutorial by popular.

Description

System testing for M-URS-10: The user sees tutorials by popular.

Prerequisite

- Tutorial "Tutorial01" must be already added into Tutorial table.
- Tutorial "Tutorial02" must be already added into Tutorial table.
- Tutorial "Tutorial03" must be already added into Tutorial table.

Test Script

1. Blogger clicks popular link.
2. System displays list of most liked tutorials that exist in database.

Test Cases

ID	Description	Input	Expected Result
1	Select "Popular" link to make sure that the system can show tutorials that has mostly liked.	Tab "Popular"	System displays list of tutorials with tutorial picture, title, owner username, and number of likes that has mostly liked.

Mobile System Test Case 11 (M-STC-11): Blogger can see tutorial by categories.

Description

> System testing for M-URS-11: The user sees tutorials by categories.

Prerequisite

- Tutorial "Tutorial01" must be already added into Tutorial table.
- Tutorial "Tutorial02" must be already added into Tutorial table.
- Tutorial "Tutorial03" must be already added into Tutorial table.

Test Script

1. Blogger goes to Menu page.
2. Blogger selects tutorial category link.
3. System displays tutorial categories.
4. Blogger selects a category.
5. System displays tutorials that exist in the category.

Test Cases

ID	Description	Input	Expected Result
1	Select "Outfit" link to make sure that the system can show tutorials from outfit category.	"Outfit"	System displays list of tutorials with tutorial picture, title, owner username, and number of likes from outfit category.
2	Select "Accessory" link to make sure that the system can show tutorials from accessory category.	"Accessory"	System displays list of tutorials with tutorial picture, title, owner username, and number of likes from accessory category.
3	Select "Gift" link to make sure that the system can show tutorials from gift category.	"Gift"	System displays list of tutorials with tutorial picture, title, owner username, and number of likes from gift category.
4	Select "Kid" link to make sure that the system can show tutorials from kid	"Kid"	System displays list of tutorials with tutorial picture, title, owner

	category.		username, and number of likes from kid category.
5	Select "Garden" link to make sure that the system can show tutorials from garden category.	"Garden"	System displays list of tutorials with tutorial picture, title, owner username, and number of likes from garden category.
6	Select "Home Decor" link to make sure that the system can show tutorials from home decor category.	"Home Decor"	System displays list of tutorials with tutorial picture, title, owner username, and number of likes from home decor category.
7	Select "Pet" link to make sure that the system can show tutorials from pet category.	"Pet"	System displays list of tutorials with tutorial picture, title, owner username, and number of likes from pet category.
8	Select "Other" link to make sure that the system can show tutorials from other category.	"Other"	System displays list of tutorials with tutorial picture, title, owner username, and number of likes from other category.

Mobile System Test Case 12 (M-STC-12): Blogger can see tutorial by searching.

Description

System testing for M-URS-12: The user sees tutorials by searching.

Prerequisite

- Tutorial "Tutorial01" must be already added into Tutorial table.
- Tutorial "Tutorial02" must be already added into Tutorial table.
- Tutorial "Tutorial03" must be already added into Tutorial table.

Test Script

1. Blogger input a character/keyword into the search box.
2. System displays tutorials that contain the character/keyword.

Test Cases

ID	Description	Input	Expected Result
1	Input a keyword that is contained in tutorial.	"Tutorial01"	System displays list of tutorials with tutorial picture, title, owner username, and number of likes that contain the word "Tutorial01"
2	Input a character that is contained in tutorial.	"T"	System displays list of tutorials with tutorial picture, title, owner username, and number of likes that contain the character "T"
3	Input a character that does not contained in tutorial.	"Z"	Error message, "No result."

Mobile System Test Case 13 (M-STC-13): Blogger can see tutorial by following.

Description

System testing for M-URS-13: The user sees tutorials by following.

Prerequisite

- Tutorial "Tutorial01" must be already added into Tutorial table.
- Tutorial "Tutorial02" must be already added into Tutorial table.
- Tutorial "Tutorial03" must be already added into Tutorial table.

Test Script

1. Blogger clicks following link.
2. System displays tutorials from people that the blogger is following.

Test Cases

ID	Description	Input	Expected Result
1	Select "Following" link to make sure that the system can show tutorials from following people.	Tab "Following"	System displays list of tutorials with tutorial picture, title, owner username, and number of likes from following people.
2	No following people	Tab "Following"	Error message, "You have not followed anyone yet."

Mobile System Test Case 14 (M-STC-14): Blogger/Shopkeeper can see tutorial detail.

Description

　　System testing for M-URS-14: The user sees tutorial information.

Prerequisite

- Tutorial "Tutorial01" must be already added into Tutorial table.
- Tutorial "Tutorial02" must be already added into Tutorial table.
- Tutorial "Tutorial03" must be already added into Tutorial table.

Test Script

1. Blogger/Shopkeeper clicks tutorial link.
2. System goes tutorial detail page.
3. System displays tutorial's information.

Test Cases

ID	Description	Input	Expected Result
1	Select "Tutorial01" link to make sure that the system can redirect to tutorial detail page.	Tab "Tutorial01"	System displays Tutorial01's information, which are title, owner username, number of likes, category, material description, material picture, step description, step picture, video, and comments.

Mobile System Test Case 15 (M-STC-15): Blogger can create his/her own tutorial.

Description
     System testing for M-URS-15: The user creates his/her own tutorial.

Prerequisite
    • Blogger has logged in.

Test Script
1. Blogger clicks create tutorial link.
2. System goes to create tutorial page.
3. System provides creating tutorial fields for blogger to input tutorial information.
4. Blogger inputs tutorial information.
5. Blogger clicks done.
6. System saves tutorial information into database.

Test Cases

ID	Description	Input	Expected Result
1	Input correct format information	**Tutorial picture:** "IMG_tutorial.jpg" **Title:** "Handmade Bracelet" **Category:** "Accessory" **Material picture:** "IMG_material.jpg" **Material description:** "1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin" **Step:** "1" **Step1 picture:** "IMG_step1.jpg" **Step1 description:** "Cut the rope to have the length as long as it can be out around your wrist." **Video:** "VDO_tutorial.mov"	System saves information into Tutorial table.

2	Input wrong picture format	**Tutorial picture:** "IMG_tutorial.pptx" **Title:** "Handmade Bracelet" **Category:** "Accessory" **Material picture:** "IMG_material.jpg" **Material description:** "1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin" **Step:** "1" **Step1 picture:** "IMG_step1.pptx" **Step1 description:** "Cut the rope to have the length as long as it can be out around your wrist." **Video:** "VDO_tutorial.mov"	Error message, "The picture must be .png/.jpg file."
3	Input title more than 20 characters	**Tutorial picture:** "IMG_tutorial.jpg" **Title:** "Handmade Bracelet xxxxx" **Category:** "Accessory" **Material picture:** "IMG_material.jpg" **Material description:** "1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin" **Step:** "1" **Step1 picture:** "IMG_step1.jpg" **Step1 description:** "Cut the rope to have the length as long as it can be out around your wrist." **Video:** "VDO_tutorial.mov"	Error message, "The title should be between 1-20 characters."
4	Leave category blank	**Tutorial picture:** "IMG_tutorial.jpg" **Title:** "Handmade Bracelet" **Category:** - **Material picture:** "IMG_material.jpg" **Material description:** "1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin" **Step:** "1" **Step1 picture:** "IMG_step1.jpg" **Step1 description:** "Cut the rope to have the length as long as it can be out around your wrist." **Video:** "VDO_tutorial.mov"	Error message, "Please select a category."

| 5 | Input description more than 500 characters | **Tutorial picture:** "IMG_tutorial.jpg"
Title: "Handmade Bracelet"
Category: "Accessory"
Material picture: "IMG_material.jpg"
Material description: "1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin"
Step: "1"
Step1 picture: "IMG_step1.jpg"
Step1 description: "A wonderful serenity has taken possession of my entire soul, like these sweet mornings of spring which I enjoy with my whole heart. I am alone, and feel the charm of existence in this spot, which was created for the bliss of souls like mine. I am so happy, my dear friend, so absorbed in the exquisite sense of mere tranquil existence, that I neglect my talents. I should be incapable of drawing a single stroke at the present moment; and yet I feel that I never was a greater artist than now. When, while the."
Video: "VDO_tutorial.mov" | Error message, "The description should be between 1-500 characters." |
| 6 | Input step more than 6 | **Tutorial picture:** "IMG_tutorial.jpg"
Title: "Handmade Bracelet"
Category: "Accessory"
Material picture: "IMG_material.jpg"
Material description: "1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin"
Step: "10"
Step1 picture: "IMG_step1.jpg"
Step1 description: "Cut the rope to have the length as long as it can be out around your wrist."
Video: "VDO_tutorial.mov" | Error message, "The step number should be between 1-6." |

7	Leave step blank	**Tutorial picture:** "IMG_tutorial.jpg" **Title:** "Handmade Bracelet" **Category:** "Accessory" **Material picture:** "IMG_material.jpg" **Material description:** "1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin" **Step:** - **Step1 picture:** "IMG_step1.jpg" **Step1 description:** "Cut the rope to have the length as long as it can be out around your wrist." **Video:** "VDO_tutorial.mov"	Error message, "Please input number of step."
8	Input wrong video format	**Tutorial picture:** "IMG_tutorial.jpg" **Title:** "Handmade Bracelet" **Category:** "Accessory" **Material picture:** "IMG_material.jpg" **Material description:** "1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin" **Step:** "1" **Step1 picture:** "IMG_step1.jpg" **Step1 description:** "Cut the rope to have the length as long as it can be out around your wrist." **Video:** "VDO_tutorial.m4a"	Error message, "The video must be .mov file."
9	Leave some fields blank	**Tutorial picture:** "IMG_tutorial.jpg" **Title:** - **Category:** "Accessory" **Material picture:** - **Material description:** - **Step:** "1" **Step1 picture:** "IMG_step1.jpg" **Step1 description:** - **Video:** "VDO_tutorial.mov"	Error message, "Please fill all information, don't leave blank."

Mobile System Test Case 16 (M-STC-16): Blogger can see his/her own tutorials.

Description
System testing for M-URS-16: The user sees his/her own tutorial.

Prerequisite
- Blogger's tutorial "Handmade Bracelet" must be already added into Tutorial table.

Test Script
1. Blogger clicks profile link.
2. System goes profile page.
3. System displays blogger's information and tutorials.

Test Cases

ID	Description	Input	Expected Result
1	Select profile link to make sure that the system can redirect to blogger's profile page.	Tab "Handmade Bracelet" tutorial	System displays blogger's information, which are profile picture, username, follower number, following number, email, and list of created tutorials with tutorial picture, title, owner username, and number of likes.

Mobile System Test Case 17 (M-STC-17): Blogger can edit his/her own tutorial.

Description
> System testing for M-URS-17: The user edits his/her own tutorial.

Prerequisite
- Blogger's tutorial "Handmade Bracelet" must be already added into Tutorial table.

Test Script
1. Blogger clicks profile link.
2. System goes profile page.
3. System displays blogger's information and tutorials.
4. Blogger selects a tutorial that he/she wants to edit.
5. System provides editable fields for blogger to edit tutorial information.
6. Blogger inputs new tutorial information.
7. Blogger clicks save.
8. System updates new tutorial information into database.

Test Cases

ID	Description	Input	Expected Result
1	Input correct format information	**Tutorial picture:** "IMG_tutorial2.jpg" **Title:** "DIY Bracelet" **Category:** "Outfit" **Material picture:** "IMG_material2.jpg" **Material description:** "1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin 6.Color" **Step:** "2" **Step1 picture:** "IMG_step1.jpg" **Step1 description:** "Cut the rope to have the length as long as it can be out around your wrist." **Step2 picture:** "IMG_step2.jpg" **Step2 description:** "Now it's time to decorate!" **Video:** "VDO_tutorial.mov"	System updates new information into Tutorial table.

2	Input wrong picture format	**Tutorial picture:** "IMG_tutorial2.pptx" **Title:** "DIY Bracelet" **Category:** "Outfit" **Material picture:** "IMG_material2. pptx" **Material description:** "1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin 6.Color" **Step:** "2" **Step1 picture:** "IMG_step1. pptx" **Step1 description:** "Cut the rope to have the length as long as it can be out around your wrist." **Step2 picture:** "IMG_step2. pptx" **Step2 description:** "Now it's time to decorate!" **Video:** "VDO_tutorial.mov"	Error message, "The picture must be .png/.jpg file."
3	Input title more than 20 characters	**Tutorial picture:** "IMG_tutorial2.jpg" **Title:** "DIY Bracelet xxxxxxxxxxxxx" **Category:** "Outfit" **Material picture:** "IMG_material2.jpg" **Material description:** "1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin 6.Color" **Step:** "2" **Step1 picture:** "IMG_step1.jpg" **Step1 description:** "Cut the rope to have the length as long as it can be out around your wrist." **Step2 picture:** "IMG_step2.jpg" **Step2 description:** "Now it's time to decorate! **Video:** "VDO_tutorial.mov"	Error message, "The title should be between 1-20 characters."

4	Leave category blank	**Tutorial picture:** "IMG_tutorial2.jpg" **Title:** "DIY Bracelet" **Category:** - **Material picture:** "IMG_material2.jpg" **Material description:** "1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin 6.Color" **Step:** "2" **Step1 picture:** "IMG_step1.jpg" **Step1 description:** "Cut the rope to have the length as long as it can be out around your wrist." **Step2 picture:** "IMG_step2.jpg" **Step2 description:** "Now it's time to decorate!" **Video:** "VDO_tutorial.mov"	Error message, "Please select a category."
5	Input description more than 500 characters	**Tutorial picture:** "IMG_tutorial2.jpg" **Title:** "DIY Bracelet" **Category:** "Outfit" **Material picture:** "IMG_material2.jpg" **Material description:** "1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin 6.Color" **Step:** "2" **Step1 picture:** "IMG_step1.jpg" **Step1 description:** "Cut the rope to have the length as long as it can be out around your wrist." **Step2 picture:** "IMG_step2.jpg" **Step2 description:** "A wonderful serenity has taken possession of my entire soul, like these sweet mornings of spring which I enjoy with my whole heart. I am alone, and feel the charm of existence in this spot, which was created for the bliss of souls like mine. I am so happy, my dear friend, so absorbed in the exquisite sense of mere tranquil existence, that I neglect my talents. I should be incapable of drawing a single stroke at the present moment; and yet I feel that I never was a greater artist than now. When, while the." **Video:** "VDO_tutorial.mov"	Error message, "The description should be between 1-500 characters."

6	Input step more than 6	**Tutorial picture:** "IMG_tutorial2.jpg" **Title:** "DIY Bracelet" **Category:** "Outfit" **Material picture:** "IMG_material2.jpg" **Material description:** "1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin 6.Color" **Step:** "10" **Step1 picture:** "IMG_step1.jpg" **Step1 description:** "Cut the rope to have the length as long as it can be out around your wrist." **Step2 picture:** "IMG_step2.jpg" **Step2 description:** "Now it's time to decorate!" **Video:** "VDO_tutorial.mov"	Error message, "The step number should be between 1-6."
7	Leave step blank	**Tutorial picture:** "IMG_tutorial2.jpg" **Title:** "DIY Bracelet" **Category:** "Outfit" **Material picture:** "IMG_material2.jpg" **Material description:** "1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin 6.Color" **Step:** - **Step1 picture:** "IMG_step1.jpg" **Step1 description:** "Cut the rope to have the length as long as it can be out around your wrist." **Step2 picture:** "IMG_step2.jpg" **Step2 description:** "Now it's time to decorate!" **Video:** "VDO_tutorial.mov"	Error message, "Please input number of step."
8	Input wrong video format	**Tutorial picture:** "IMG_tutorial2.jpg" **Title:** "DIY Bracelet" **Category:** "Outfit" **Material picture:** "IMG_material2.jpg" **Material description:** "1.Rope 2.Glue 3.Scissor 4.Glitter 5.Pin 6.Color" **Step:** "2" **Step1 picture:** "IMG_step1.jpg" **Step1 description:** "Cut the rope to have the length as long as it can be out around your wrist."	Error message, "The video must be .mov file."

		Step2 picture: "IMG_step2.jpg" Step2 description: "Now it's time to decorate!" Video: "VDO_tutorial.m4a"	
9	Leave some fields blank	Tutorial picture: "IMG_tutorial2.jpg" Title: - Category: "Outfit" Material picture: - Material description: - Step: "2" Step1 picture: "IMG_step1.jpg" Step1 description: - Step2 picture: "IMG_step2.jpg" Step2 description: "Now it's time to decorate!" Video: "VDO_tutorial.mov"	Error message, "Please fill all information, don't leave blank."

Mobile System Test Case 18 (M-STC-18): Blogger can delete his/her own tutorial.

Description

System testing for M-URS-18: The user deletes his/her own tutorial.

Prerequisite

• Blogger's tutorial "Handmade Bracelet" must be already added into Tutorial table.

Test Script

1. Blogger clicks profile link.
2. System goes profile page.
3. System displays blogger's information and tutorials.
4. Blogger selects a tutorial that he/she wants to edit.
5. System provides edit tutorial interface.
6. Blogger clicks delete tutorial.
7. System deletes the tutorial from database.

Test Cases

ID	Description	Input	Expected Result
1	Select delete tutorial link to make sure that the system is able to delete the tutorial from database.	Tab "Delete tutorial"	System removes the tutorial from Tutorial table.