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| Capstone Project Document |

**DANDELION**

Report #1 – User Requirement Specification

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**- Hanoi, 09/2015 –**

# SIGNATURE PAGE

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# USER REQUIREMENTS SPECIFICATION

## Introduction

### Purpose

This document will provide the describing of general requirement and non-functional requirements of our DDL system. It also describes the requirement scope of each phase in the project.

### Definition and Acronyms

|  |  |
| --- | --- |
| Terms | Description |
| DDL | Dandelion |
|  |  |

Table 1‑1: Definition and Acronyms

## Overall Description

### Business Process Overview

DDL is a website. Therefore, that system will implement the following processes:

#### Approve/Suspend workflow

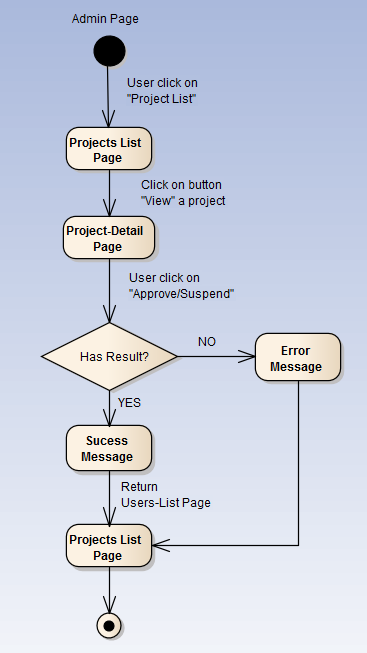


Figure 1‑1: Approve/Suspend workflow

Brief description: Admin can use this function. Steps:

* Step 1: User click on projects list.
* Step 2: System return projects list page.
* Step 3: User click on button view
* Step 4: System return project detail page.
* Step 5: User click on button Approved/Suspended
* Step 6: System return success message or error message.
* Step 7: System return projects list page.

#### Active/Inactive workflow

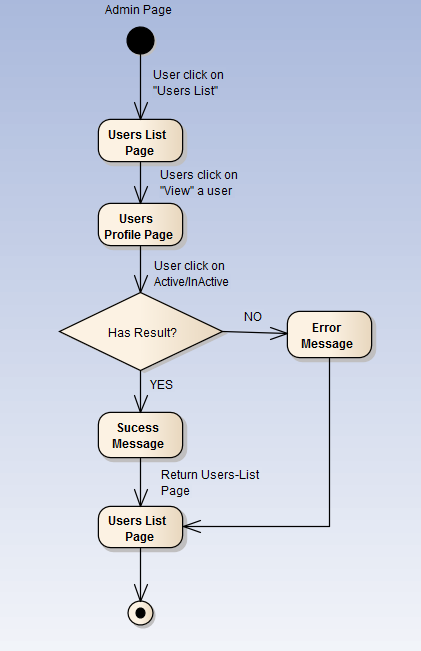


Figure 1‑2: Active/Inactive workflow

Brief description: Admin can use this function. Steps:

* Step 1: User click on users list.
* Step 2: System return users list page.
* Step 3: User click on button view a user
* Step 4: System return user profile page.
* Step 5: User click on button Active/Inactive
* Step 6: System return success message or error message.
* Step 7: System return users list page.

#### Add category workflow

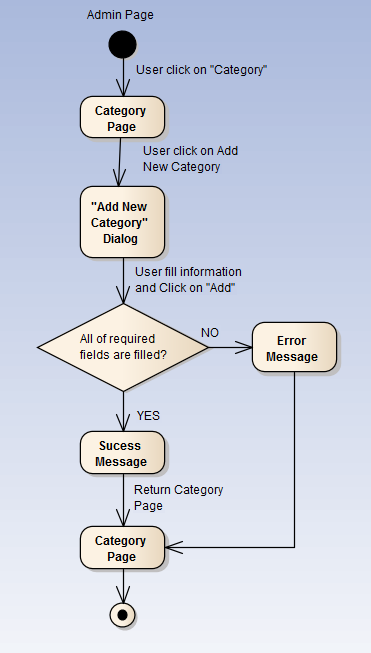


Figure 1‑3: Add category workflow

Brief description: Admin can use this function. Steps:

* Step 1: User click on Category.
* Step 2: System return category page.
* Step 3: User click on button new category
* Step 4: System return dialog “Add New Category”.
* Step 5: User fill information and click “Add”
* Step 6: System return success message or error message.
* Step 7: System return category page.

#### Add slider workflow

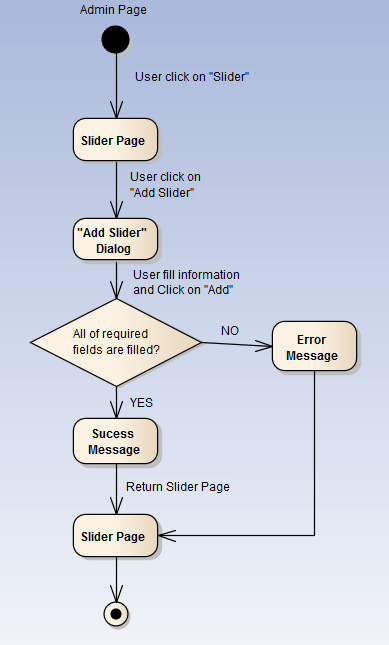


Figure 1‑4: Add slider workflow

Brief description: Admin can use this function. Steps:

* Step 1: User click on Slider.
* Step 2: System return slider page.
* Step 3: User click on button new slider.
* Step 4: System return dialog “Add New Slider”.
* Step 5: User fill information and click “Add”
* Step 6: System return success message or error message.
* Step 7: System return slider page.

#### Sent message workflow

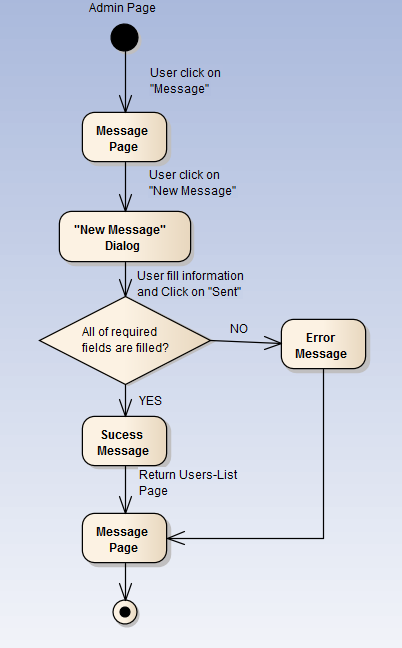


Figure 1‑5: Sent message workflow

Brief description: Admin or user can use this function. Steps:

* Step 1: User click on Message.
* Step 2: System return message page.
* Step 3: User click on “new message” button.
* Step 4: System return dialog “New Message”.
* Step 5: User fill information and click “Sent”
* Step 6: System return success message or error message.
* Step 7: System return message page.

#### Register workflow

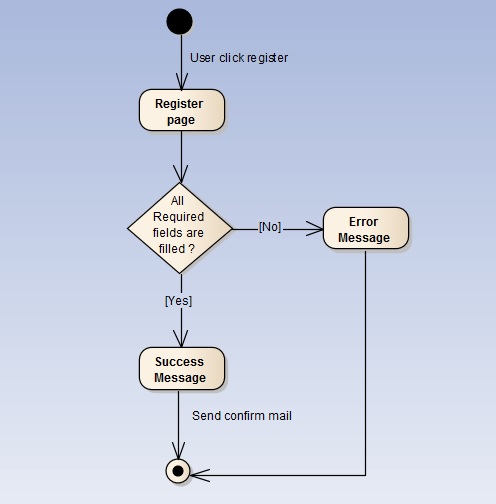


Figure 1‑6: Register workflow

Brief description: Guest can use this function. Steps:

* Step 1: User click register.
* Step 2: System return register page.
* Step 3: User fill all required fields and click Register or press Enter.
* Step 4: System return complete message.
* Step 5: System send confirm mail to user’s entered email.

#### Search workflow

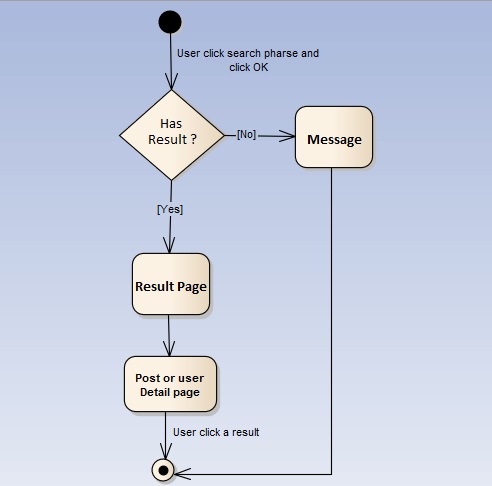


Figure 1‑7: Search workflow

Brief description: Guest and Member can use this function. Steps:

* Step 1: User input keyword into search text box and click Search or press Enter
* Step 2: System return search results or message if nothing found.
* Step 3: User can click returned results to view.

#### Comment workflow

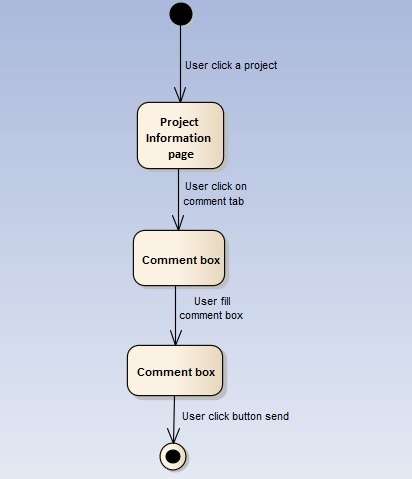


Figure 1‑8: Comment workflow

Brief description: Member can use this function. Steps:

* Step 1: User click on a project.
* Step 2: System return Project information page.
* Step 3: User click on comment tab.
* Step 4: System show comment tab.
* Step 5: User fill comment box.
* Step 6: User click sent.

#### Back a project workflow

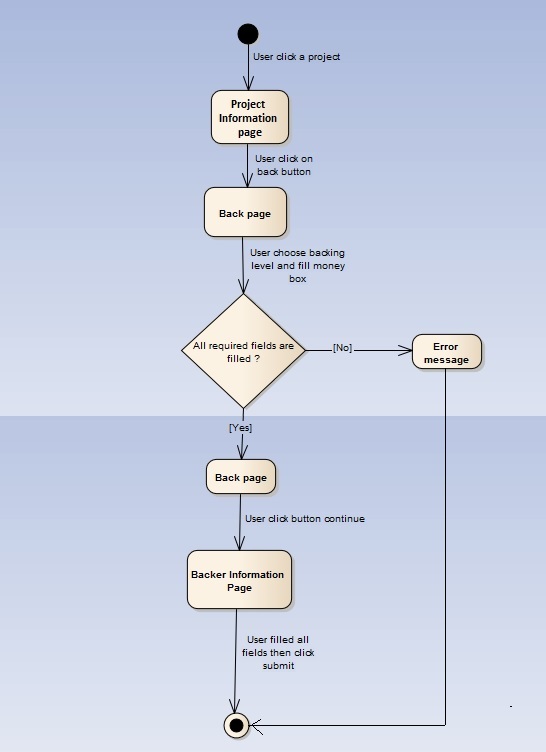


Figure 1‑9: Back a project workflow

Brief description: Guest and Member can use this function. Steps:

* Step 1: User click on a project.
* Step 2: System return Project information page.
* Step 3: User click on button back.
* Step 4: System return Back page.
* Step 5: User choose back level then click continue.
* Step 6: System return Backer information page.
* Step 7: User fill all fields then click submit.

#### Create a project workflow

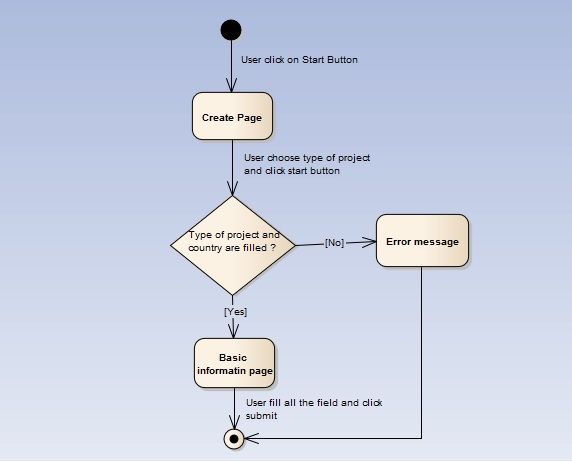


Figure 1‑10: Create a project workflow

Brief description: Member can use this function. Steps:

* Step 1: User click on start button.
* Step 2: System return Create page.
* Step 3: User choose type and country then click start.
* Step 4: System return Basic page.
* Step 5: User fill all the fields then click submit.
* Step 6: System return Backer information page.

#### Remind a project workflow

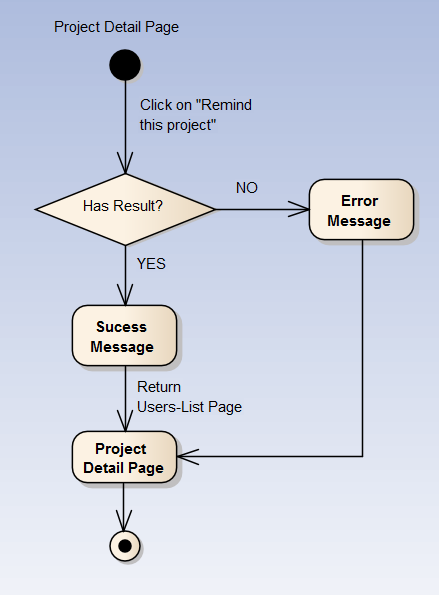


Figure 1‑11: Remind a project workflow

Brief description: Member can use this function. Steps:

* Step 1: User click on “Remind this project” button.
* Step 2: System return success message or error message.
* Step 3: System return Project Detail page.

#### Report a project workflow

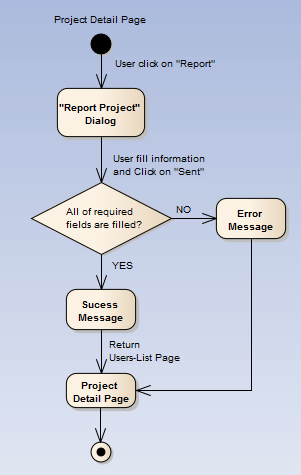


Figure 1‑12: Report a project workflow

Brief description: Member can use this function. Steps:

* Step 1: User click on report button.
* Step 2: System return “Report project” dialog.
* Step 3: User fill information and click “Sent”
* Step 4: System return success message or error message.
* Step 5: System return project detail page.

### Product Features

DDL is a website, user only connect to internet to use website. System provides these main functions:

#### Client features

* **Register:** User can register an account and login to use all features of DDL.
* **Login/Logout**: Users login/logout an account to use or exit system DDL.
* **Search:** User and guest can search with code of project, name of project, name of creator; and system will display all of project relate to keywords.
* **Filter:** User can filter with category (Art, Comics, Game, etc.), place (Earth, Vietnam, etc.), Status (Magic, Popularity, Most Funded, etc.). And system will display projects relate to these selected options.
* **Project**
  + Create New Project: Users can create new projects with basic info, reward, timeline, clip and some pictures.
  + Update Project Information: User can change and update information of projects which created.
  + Comment/Remind: Users can comment/remind a project to follow and discuss with another users.
  + Report: User can report a project which violate regulation to administrator.
* **Back Project**: User can back another project to donate money to help project success and get rewards.
* **Profile:**
  + Change password: User can change password to keep security.
  + Update profile: User can change or update information.
  + Manage created projects, backed projects, reminded projects: User can follow process of projects, follow project backed, project reminded. View statistical projects had created, backed, reminded.
  + Sent/Receive message: Users can send to or receive from other users to discuss about projects.

#### Admin features

* **Manage user:**
  + search user: Admin can search with name of user and system will display simple information about that user(name, email, phone number)
  + Inactive/active user: admin can set user’s account to inactive or active.
* **Manage project:** 
  + Search project :
  + Search with project name: Admin can search with name of project and system will display simple information about that project.
  + Search with category: Admin can search with category of project and system will display all project with that category
  + Search with Creator name: Admin can search with Creator name of project and system will display all project of that user.
  + Edit project status: Admin can set status of a project: pending to approved, pending to suspend, approved to suspend, etc.
* **Manage Backing:** Admin can view users who backed a project. Also, Admin can view simple information about that user and which reward they chose.
* **Manage Categories:** 
  + Add new category: Admin can add new category.
  + inactive/active category: Admin can set category’s status to inactive or active
* **Manage Slider:** Slider list includes images what running at homepage.
  + Add new image: Admin can add new image to slider
  + Inactive/active: Admin can set image’s status to inactive or active on slider.
  + Delete image: Admin can delete image.
* **Message:** Admin can view received messages/send messages.
  + Compose new message: Admin can compose new message to send to user.
  + Delete message: Admin can delete received messages/sent messages.

### User characteristic

This website is a major platform for crowdfunding. Anybody could launch a project on Dandelion as long as it follows our rules. We believe that creative projects making a better world, and we’re thrilled to help support new ones. Building a community of backers around an idea is an amazing way to make something new. The website requires users to have the ability to use a browser with an internet connection. If users want to use all function, they must be login.

There are 2 main actors that system support:

* **Member:** Have account on system, they can use all functions of website. For example: Searching, create project, back project, etc…
* **Administrator:** They can use all functions of normal member and have an Administrator control panel to manage all configuration of system.

## Functional Requirements

### Common Function

**Access right: Member**

This function is used to by guest and member. Guest or Member can search for their needs, results may be projects, creator, bankers or members’ name.

### Discover Projects

**Access right: Guest and member**

This function is used to view an overview of the projects. The system will display a Discover Screen for user. In this screen, have many category, favorite projects, popular projects. Users can use many options such as sort by category, place, popularity; link to Project Details Screen to view projects, and can back this project.

### Create Project

**Access right: Member**

This function is used to create new project. The system will display a Suggest Create Project Screen for user to create. In this screen, users choose category projects, input name projects and click on button create. The chosen will be passed to Create Project Screen. In this screen, it devices on many tabs such as basic, reward, story, update, etc. And users have to fill in the fields. After finish, users can click button “submit to review” and wait for project approved.

### Back Project

**Access right: Member**

This function is used to back project. The system will display a Project Details Screen for user to back project. In this screen, users press on a reward or click on button “back this project”. The chosen will be passed to Back Project Screen. In this screen, have many rewards to users can choose and fill money to back. Then click on button “Continue”, the chosen will be passed to Payment Screen. In this screen, users can fill information and choose type payment and Bank to donate project (back project).

### Send/Receive messages

**Access right: Member and Administrator.**

This function is used to send and receive messages between users, admin. The system will display a Message Screen for users and admin to view message. In this screen, users can compose new message, search, filter and delete received messages/sent messages.

### Management profile

**Access right: Member**

This function is used to management profile. The system will display a Profile Screen. In this screen, users can update, modify their information such as: name, password, age, phone number and choose which information would be public; users also can view many information such as view backed project, created project, starred projects, favorite bankers.

### Management Member’s account

**Access right: Administrator**

This function is used to management member’s account. The system will display a Management Member Screen. In this screen, admin can view information about member, status of member (active or Inactive). When a member violates some rules of website, admin can block these member’s account temporarily, then these account cannot continue to use functions of website. Locked account will be unlocked when lock is expired. If these account violate rules one more time, Admin can lock account permanently.

Warn: If member violate the rules (reported by others), admin can send message to warn this people from stopping violation and delete/modify violated post.

### Management Project

**Access right: Administrator**

This function is used to management project. The system will display a Management Project Screen. In this screen, admin can view information about project of creator, status of projects, and give decision to approve or suspend project of member.

### Management Dashboard Overview

**Access right: Administrator**

This function is used to management report. The system will display a Dashboard Screen to have overview all of system. In this screen, admin can view information about user and projects such as the number of accessing, new users, active users, inactive users, number of created projects, backed project, bankers, etc.

## Non-functional Requirement

The system has to satisfy these principles:

* **Learnable**: The user interface must be easy to learn, even at the first time looking at the screen, user may immediately understand the function of each button or icon.
* **Efficiency**: The user interface must minimize the number of steps that the system takes to complete its task.
* **Memorable**: System contains some complex screens. Therefore, interface should be easier to use each time the user interacts with it.
* **Visibility**: Important information (example: text in nodes) should be clearly visible.
* **Consistency**: Like items should always be displayed and act the same way through the entire application.
* **Easy to maintain and upgrade**
* **Ensure data security capabilities, high performance**
* **Scalability system**