|  |
| --- |
|  |
| Capstone Project Document |

**DANDELION**

Report #2 – Class Design

|  |  |  |
| --- | --- | --- |
| **Dandelion** | | |
| **Group Members** | Vũ Công Chính | SE02585 |
| Lưu Ngọc Mạnh | SE02619 |
| Nguyễn Minh Huy | SE02723 |
| Dương Đức Anh | SE02700 |
| Vũ Ngọc Trung | SE02967 |
| Cao Thị Phương Mai | SE02908 |
| **Supervisor** | Mr. Nguyễn Văn Sang | |
| **Project code** | DDL | |

**- Hanoi, 09/2015 -**

# SIGNATURE PAGE

AUTHOR: Lưu Ngọc Mạnh 28/09/2015

Project Manager

REVIEWERS: Nguyễn Minh Huy 30/09/2015

Team member

APPROVAL: Nguyễn Văn Sang --/--/--15

Supervisor

Record of change

\*A - Added M - Modified D – Deleted

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Effective Date | Changed Item | A,M,D | Change Description | Reason for Change | Rev. Number |
| 28/Sep/2015 | Create Class Design | A | First version | Create Class Design | 1.0 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

TABLE CONTENTS

[SIGNATURE PAGE 1](#_Toc435556590)

[1 Introduction 4](#_Toc435556591)

[1.1 Purpose 4](#_Toc435556592)

[1.2 Definitions, Acronyms and Abbreviations 4](#_Toc435556593)

[2 Package 4](#_Toc435556594)

[2.1 Package Diagram 4](#_Toc435556595)

[2.2 Package Description 5](#_Toc435556596)

[2.2.1 Model 5](#_Toc435556597)

[2.2.2 View 12](#_Toc435556598)

[2.2.3 Controller 12](#_Toc435556599)

[3 Function 23](#_Toc435556600)

[3.1 Common 23](#_Toc435556601)

[3.1.1 Class diagram 23](#_Toc435556602)

[3.1.2 Sequence diagram 23](#_Toc435556603)

[3.2 Project 26](#_Toc435556604)

[3.2.1 Class diagram 26](#_Toc435556605)

[3.2.2 Sequence diagram 26](#_Toc435556606)

[3.3 Comment 26](#_Toc435556607)

[3.3.1 Class diagram 26](#_Toc435556608)

[3.3.2 Sequence diagram 26](#_Toc435556609)

[3.4 Message 28](#_Toc435556610)

[3.4.1 Class diagram 28](#_Toc435556611)

[3.4.2 Sequence diagram 28](#_Toc435556612)

[3.5 User Profile 30](#_Toc435556613)

[3.5.1 Class diagram 30](#_Toc435556614)

[3.5.2 Sequence diagram 30](#_Toc435556615)

[3.6 Manage Report 30](#_Toc435556616)

[3.6.1 Class diagram 30](#_Toc435556617)

[3.6.2 Sequence diagram 30](#_Toc435556618)

[3.7 Manage User 30](#_Toc435556619)

[3.7.1 Class diagram 30](#_Toc435556620)

[3.7.2 Sequence diagram 30](#_Toc435556621)

[3.8 Manage Slide 30](#_Toc435556622)

[3.8.1 Class diagram 30](#_Toc435556623)

[3.8.2 Sequence diagram 30](#_Toc435556624)

[3.9 Manage Category 33](#_Toc435556625)

[3.9.1 Class diagram 33](#_Toc435556626)

[3.9.2 Sequence diagram 33](#_Toc435556627)

[3.10 Manage Backing 35](#_Toc435556628)

[3.10.1 Class diagram 35](#_Toc435556629)

[3.10.2 Sequence diagram 35](#_Toc435556630)

# Introduction

## Purpose

Dandelion class design document contains descriptions of all classes of the Dandelion. It includes: Class diagrams that describe the static relation of all classes in the system.

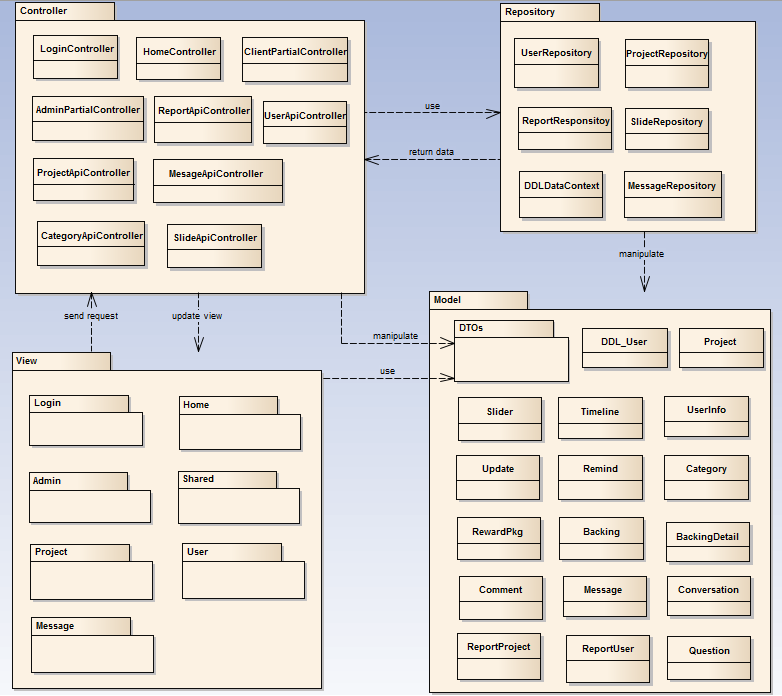
## Definitions, Acronyms and Abbreviations

|  |  |  |
| --- | --- | --- |
| Abbreviations | Description | Comment |
| DDL | Dandelion |  |
| FAQ | Frequently Asked Question |  |

1. Definitions, Acronyms and Abbreviations

# Package

## Package Diagram



1. Package Diagram

## Package Description

### Model

#### User

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Default** | **Note** | **Description** |
|  | UserID | int |  | private | User’s ID |
|  | UserName | String |  | private | User’s name |
|  | Password | String |  | private | User’s password |
|  | IsActive | bool | false | private | User’s active status (inactive, active) |
|  | CreatedDate | Datetime |  | private | User’s created date |
|  | LoginType | String | normal | private | User’s created type includes: normal, Facebook or both |
|  | LastLogin | Datetime |  | private | User’s last login |
|  | UserType | String | normal | private | User’s type (admin or nomal user) |
|  | IsVerify | bool | false | private | User’ email verify status |

1. User model

#### Userinfo

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Default** | **Note** | **Description** |
|  | UserID | int |  | private | Person’s ID |
|  | FullName | String |  | private | Person’s full name |
|  | ProfileImage | String |  | private | Person’s profile image |
|  | Biography | String |  | private | Person’s biography |
|  | Address | String |  | private | Person’s address |
|  | Gender | String | male | private | Person’s gender |
|  | PhoneNumber | String |  | private | Person’s phone number |
|  | DateOfBirth | Datetime |  | private | Person’s date of birth |
|  | Country | String |  | private | Person’s country |
|  | Website | String |  | private | Person’s website |
|  | FacebookURL | String |  | private | Person’s facebook link |

1. UserInfo model

#### Project

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Default** | **Note** | **Description** |
|  | ProjectID | int |  | private | Project’s ID |
|  | ProjectCode | String |  | private | Project’s code with fixed format |
|  | CategoryID | int |  | private | Project’s category |
|  | CreatorID | int |  | private | Project’s UserID who created project |
|  | ProjectTitle | String |  | private | Project’s title |
|  | Risk | String |  | private | Project’s risk |
|  | ImageURL | String |  | private | Project’s image link |
|  | SubDescription | String |  | private | Project’s sub description |
|  | Location | String |  | private | Project’s location created |
|  | IsExpired | bool |  | private | Is Project’s expired |
|  | CurrentFunded | demical |  | private | Project’s funded status |
|  | IsFunded | bool |  | private | Is Project’s funded |
|  | CreatedDate | datetime |  | private | Project’s createdDate |
|  | ExpiredDate | datetime |  | private | Project’s expired date |
|  | FundingGoal | decimal |  | private | Project’s funding goal |
|  | Description | String |  | private | Project’s description |
|  | LinkVideo | String |  | private | Project’s video link |
|  | Story | String |  | private | Project’s story |
|  | PopularPoint | int | 0 | private | Project’s popular point |
|  | Status | String | draft | private | Project’s status ( draft, pending, approved, suspended) |

1. Project model

#### Question Model

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Default** | **Note** | **Description** |
|  | QuestionID | Int |  | private | question’s ID |
|  | ProjectID | Int |  | private | question’s project id |
|  | Question | String |  | private | question’s question |
|  | Answer | String |  | private | question’s answer |
|  | CreatedDate | Datetime |  | private | question’s created date |

1. Question Model

#### Category model

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Default** | **Note** | **Description** |
|  | CategoryID | int |  | private | Category’s ID |
|  | Name | String |  | private | Category’s name |
|  | IsActive | bool | false | private | Category’s active status |
|  | Description | String |  | private | Category’s description |

1. Category Model

#### UpdateLog Model

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Default** | **Note** | **Description** |
|  | UpdateID | int |  | private | Update’s ID |
|  | ProjectID | Int |  | private | Update’s project id |
|  | Title | String |  | private | Update’s title |
|  | Description | String |  | private | Update’s description |
|  | CreatedDate | datetime |  | private | Update’s created date |

1. Update Model

#### Timeline Model

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Default** | **Note** | **Description** |
|  | TimelineID | int |  | public | Timeline’s ID |
|  | ProjectID | int |  | public | Timeline’s project id |
|  | Title | String |  | public | Timeline’s title |
|  | Description | String |  | public | Timeline’s description |
|  | DueDate | datetime |  | public | Timeline’s due date |

1. Timeline Model

#### ReportProject Model

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Default** | **Note** | **Description** |
|  | ReportID | int |  | private | Report ’s ID |
|  | ProjectID | int |  | private | Report ’s project id |
|  | UserID | int |  | private | Report ’s user id, who report project |
|  | Subject | String |  | private | Report ’s subject |
|  | ReportContent | String |  | private | Report ’s content |
|  | ReportDate | datetime |  | private | Report ’s report date |
|  | Status | String | new | private | Report’s status (new, viewed, done) |

1. ReportProject Model

#### Remind Model

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Default** | **Note** | **Description** |
|  | RemindID | int |  | private | Remind’s ID |
|  | ProjectID | int |  | private | Remind’s project id |
|  | UserID | int |  | private | Remind’s user id |

1. Remind Model

#### Backing Model

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Default** | **Note** | **Description** |
|  | BackingID | int |  | private | Back’s ID |
|  | UserID | int |  | private | Back’s user id |
|  | ProjectID | int |  | private | Back’s project id |
|  | BackedDate | Datetime |  | private | Back’s date |
|  | Description | String |  | private | Back’s description |
|  | IsPublic | bool | true | private | Is back public |

1. Backing Model

#### BackingDetail Model

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Default** | **Note** | **Description** |
|  | BackingID | int |  | private | Backing’s ID |
|  | BackerName | string |  | private | Name of backer |
|  | RewardPkgID | int |  | private | Identify number of reward package |
|  | PledgedAmount | decimal | 0 | private | total pledged amount |
|  | Quantity | int | 1 | private | quantity of reward |
|  | Description | string |  | private | Backing’s description |
|  | Address | string |  | private | Backer’s address |
|  | PhoneNumber | string |  | private | Backer’s phone number |
|  | Email | string |  | private | Backer’s email |

1. BackingDetail Model

#### Comment Model

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Default** | **Note** | **Description** |
|  | CmtID | int |  | private | Comment’s ID |
|  | UserID | int |  | private | Comment’s user id |
|  | ProjectID | int |  | private | Comment’s project id |
|  | CmtContent | String |  | private | Comment’s content |
|  | CmtDate | Datetime |  | private | Comment’s date |
|  | IsHide | bool | false | private | Is Comment’s hide |
|  | UpdatedDate | Datetime |  | private | Comment;’s updated datetime |
|  | IsEdited | bool | false | private | Is comment edited |

1. Comment Model

#### ReportUser Model

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Default** | **Note** | **Description** |
|  | ReportID | int |  | private | Report’s ID |
|  | ReportUserID | int |  | private | Report’s report user ID |
|  | ReportedUserID | int |  | private | Report’s reported user ID |
|  | Status | String |  | private | Report’s status (new, viewed, done) |
|  | Subject | String |  | private | Report’s Subject |
|  | ReportContent | String |  | private | Report’s content |
|  | ReportDate | datetime |  | private | Report’s date |

1. ReportUser Model

#### Slide Model

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Default** | **Note** | **Description** |
|  | SlideID | int |  | private | Slide’s ID |
|  | SlideTitle | String |  | private | Slide’s title |
|  | Order | int |  | private | Slide’s order |
|  | Description | String |  | private | Slide’s description |
|  | ImageLink | String |  | private | Slide’s image link |
|  | VideoUrl | String |  | private | Slide’s video |
|  | IsActive | bool | false | private | Slide’s isActive status |
|  | SliderURL | String |  | private | Slide’s slide URL |
|  | ButtonColor | String | green | private | Slide’s button color |
|  | CreatedDate | datetime |  | private | Slide’s created date |
|  | TextColor | string | light | private | slide’s text color |
|  | ButtonText | String |  | private | Slide’s button text |

1. Slide Model

#### Conversation Model

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Default** | **Note** | **Description** |
|  | ConversationID | int |  | private | Conversation’s ID |
|  | CreatorID | int |  | private | Conversation’s creator id |
|  | ReceiverID | int |  | private | Conversation’s receiver |
|  | Subject | String |  | private | Conversation’s subject |
|  | CreatedDate | Datetime |  | private | Conversation’s created date |
|  | UpdatedDate | Datetime |  | private | Conversation’s update date |
|  | DeleteStatus | String | no | private | Conversation’s user delete status |
|  | ViewStatus | String | creator | private | Conversation’s user view status |

1. Conversation Model

#### Message Model

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Default** | **Note** | **Description** |
|  | MessageID | int |  | private | Message’s ID |
|  | ConversationID | int |  | private | Message’s conversation id |
|  | UserID | int |  | private | Message’s user id |
|  | MessageContent | String |  | private | Message’s content |
|  | SentTime | Datetime |  | private | Message’s sent time |

1. Message Model

#### RewardPkg Model

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Default** | **Note** | **Description** |
|  | RewardID | int |  | private | Reward’s ID |
|  | ProjectID | int |  | private | Reward’s project id |
|  | LimitedQuantity | int |  | private | Reward’s limited quantity |
|  | Type | String |  | private | Reward’s type (noReward, limited, unlimited) |
|  | Description | String |  | private | Reward’s description |
|  | EstimatedDeliveryDate | datetime |  | public | Reward’s estimated delivery date |
|  | IsHide | bool | true | public | Is Reward hide |

1. Reward package table

### DTOs

Contain many data transfer object classes.

### View

Contain many .cshtml files to display user interface.

### Controller

#### LoginController

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Method | Parameter | Return | Description |
|  | AuthenFacebook |  | ActionResult | Use to request login to Facebook |
|  | FacebookCallback | string | ActionResult | Function callback, get data from Facebook |
|  | ForgotPassword |  | ActionResult | Set user’s password to a random string and send to email of user |
|  | Login | String | ActionResult | Return login page for user |
|  | Login | Object, String | ActionResult | Receive request login with form data included user name and password. |
|  | Logout |  | ActionResult | Logout current user from DDL. |
|  | AdminLogin | string |  | Return login page for admin. |
|  | AdminLogin | Object, string | ActionResult | Receive request login with form data included user name and password. |
|  | AdminLogout |  | ActionResult | Logout for admin page. |
|  | Active | string, string | ActionResult | Verify email account, active new account with code. |

1. Login Controller

#### HomeController

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Method | Parameter | Return | Description |
|  | Index |  | ActionResult | Display main page of DDL client. |
|  | AdminIndex |  | ActionResult | Display main page of DDL admin. |
|  | Error |  | ActionResult | Display error page |

1. Home Controller

#### ClientPartialController

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Method | Parameter | Return | Description |
|  | Home |  | ActionResult | Display home page |
|  | Register |  | ActionResult | Display Register page |
|  | RegisterSuccess |  | ActionResult | Display register successful page |
|  | ForgotPassword |  | ActionResult | Display ForgotPassword page |
|  | Discover |  | ActionResult | Display discovery page |
|  | Message |  | ActionResult | Display message list page |
|  | MessageDetail |  | ActionResult | Display message detail page |
|  | CreateProject |  | ActionResult | Display create project page |
|  | ProjectDetail |  | ActionResult | Display project detail page |
|  | EditProject |  | ActionResult | Display Edit Project page |
|  | Statistics |  | ActionResult | Display Statistics page |
|  | Search |  | ActionResult | Display Search result page page |
|  | BackProject |  | ActionResult | Display first Backing page with list rewards of project. |
|  | PaymentProject |  | ActionResult | Display second Backing page to input backing information. |
|  | PublicProfile |  | ActionResult | Display Public Profile page |
|  | EditProfile |  | ActionResult | Display Edit Profile page |
|  | EditPassword |  | ActionResult | Display Edit Password page |
|  | Message |  | ActionResult | Display Message page |
|  | BackedProject |  | ActionResult | Display Backed Project page |
|  | BackedProjectHistory |  | ActionResult | Display backed history page |
|  | CreatedProject |  | ActionResult | Display Created Project page |
|  | StarredProject |  | ActionResult | Display Reminded Project page |
|  | ListBacker |  | ActionResult | Display page with list backing of a project. |
|  | Error |  | ActionResult | Display Error page. |
|  | NotFound |  | ActionResult | Display 404 not found page. |

1. ClientPartialController

#### AdminPartialController

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Method | Parameter | Return | Description |
|  | Dashboard |  | ActionResult | Display dashboard page. |
|  | ProjectDashboard |  | ActionResult | Display Project Dashboard page |
|  | ProjectList |  | ActionResult | Display Project List page |
|  | ProjectDetail |  | ActionResult | Display project detail page |
|  | Slide |  | ActionResult | Display slide page. |
|  | MessageList |  | ActionRes | Display message list for admin. |
|  | MessageDetail |  |  | Display message detail for admin. |
|  | UserDashboard |  | ActionResult | Display User Dashboard project page |
|  | UserList |  | ActionResult | Display User List page |
|  | UserProfile |  | ActionResult | Display profile of a user page |
|  | BackingList |  |  | Display backing list page. |
|  | Category |  |  | Display category page. |
|  | ReportProject |  |  | Display report user page. |
|  | ReportUser |  |  | Display report project page |
|  | NotFound |  | ActionResult | Display Error page. |
|  | Error |  | ActionResult | Display 404 not found page. |

1. AdminPartialController

#### UserApiController

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Method | Parameter | Return | Description |
|  | Register | Object | IHttpActionResult | Create new user api |
|  | ResetPassword | string | IHttpActionResult | Reset password to random string for a user and send to user’s email. |
|  | GetListUserName | String | IHttpActionResult | Api to get list username which matched with input string.  This function is used by message page. |
|  | CheckLoginStatus |  | IHttpActionResult | Check login status of current user. |
|  | GetPublicInfo | string | IHttpActionResult | Get public information of a user. |
|  | GetUserInfoEdit |  | IHttpActionResult | Get personal information of current user. |
|  | EditUserInfo |  | IHttpActionResult | Api to edit information of current user. |
|  | GetUserPasswordEdit |  | IHttpActionResult | Get password of current user. |
|  | ChangePassword | Object | IHttpActionResult | Change password of current user. |
|  | GetUserBackedProjectForAdmin | string | IHttpActionResult | Get list backed project of a user. |
|  | GetUserCreatedProjectForAdmin | string | IHttpActionResult | Get list created project of a user. |
|  | GetUserDashboardForAdmin |  | IHttpActionResult |  |
|  | GetUserListForAdmin |  | IHttpActionResult | Get list user for admin. |
|  | GetUserProfileForAdmin | string | IHttpActionResult | Get profile of a user for admin page. |
|  | ChangeUserStatus | string | IHttpActionResult | Set active or deactive a user. |
|  | GetUserTop |  | IHttpActionResult | Get top user for statistic |
|  | AdminGetTopBacker |  | IHttpActionResult | Get top backer for admin |
|  | AdminGetRecentUser |  | IHttpActionResult | Get last 10 logged user. |
|  | AdminGetRecentBacking |  | IHttpActionResult | Get last 10 backing |

Table -21: User API Controller

#### ProjectApiController

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Method | Parameter | Return | Description |
|  | CreateProject | Object | IHttpActionResult | Create a new project |
|  | EditProjectBasic | Object | IHttpActionResult | Edit basic information of a draft project |
|  | EditProjectStory | Object | IHttpActionResult | Edit advanced information of a project |
|  | GetProjectBasic | int | IHttpActionResult | Get basic information of a project |
|  | GetProjectStory | int | IHttpActionResult | Get advanced information of a project. |
|  | GetRewardPkg | int | IHttpActionResult | Get list reward package of a project |
|  | GetRewardPkgByCode | String | IHttpActionResult | Get list reward package of a project by code. |
|  | CreateRewardPkg | Int, Object | IHttpActionResult | Create new reward package for a project |
|  | EditRewardPkg | Object | IHttpActionResult | Create a reward package of project |
|  | DeleteRewardPkg | Int | IHttpActionResult | Delete a reward package |
|  | GetUpdateLog | int | IHttpActionResult | Get list update log of a project |
|  | CreateUpdateLog | Object | IHttpActionResult | Add an update log for a project |
|  | EditUpdateLog | Object | IHttpActionResult | Edit an update log of project. |
|  | DeleteUpdateLog | Int | IHttpActionResult | Delete an update log of project. |
|  | GetQuestion | Int | IHttpActionResult | Get list question and answer of a project |
|  | CreateQuestion | Object | IHttpActionResult | Create a Q&A |
|  | EditQuestion | Object | IHttpActionResult | Edit a Q&A |
|  | DeleteQuestion | Int | IHttpActionResult | Delete a Q&A |
|  | SubmitProject | Int | IHttpActionResult | Submit project for admin to review |
|  | BackProject | Object | IHttpActionResult | Back for a project |
|  | GetBackProjectInfo | string | IHttpActionResult | Get |
|  | GetPendingProjectList |  | IHttpActionResult | Get list pending, rejected project |
|  | AdminGetProjectGeneralInfo |  | IHttpActionResult | Get dashboard project information |
|  | AdminGetProjectList |  | IHttpActionResult | Get project list for admin |
|  | AdminGetProjectDetail | string | IHttpActionResult | Get project detail for admin |
|  | AdminGetProjectComment | string | IHttpActionResult | Get list comment of a project |
|  | AdminGetUpdateLogList | string | IHttpActionResult | Get update log list of a project |
|  | AdminChangeProjectStatus | Object | IHttpActionResult | Change project status |
|  | AdminGetListBacker | String | IHttpActionResult | Get list backing of a project. |
|  | AdminGetDashboardInfo |  | IHttpActionResult | Get dashboard information for admin. |
|  | AdminGetTopProjectList |  | IHttpActionResult | Get top 10 project success |
|  | AdminGetProjectStatistic | int | IHttpActionResult | Get statistic by year |
|  | AdminGetStatisticTable | Int | IHttpActionResult | Get statistic table by year |
|  | GetProjectTop | string | IHttpActionResult | Get top 10 project success by category |
|  | GetProject | Int, int, string, string, string,  string, bool, string | IHttpActionResult | Get project with multi option |
|  | GetProjectByCategory |  | IHttpActionResult | Get project by category |
|  | GetProjectStatisticList |  | IHttpActionResult | Get project statistic |
|  | GetStatisticListForHome |  | IHttpActionResult | Get statistic for home page. |
|  | GetProjectDetail | string | IHttpActionResult | Get project detail by project code |
|  | GetCommentList | string, string | IHttpActionResult | Get list comment of a project |
|  | GetUpdateLogList | string | IHttpActionResult | Get list update log of a project |
|  | GetBackedProject |  | IHttpActionResult | Get list backed project of current user. |
|  | GetBackedProjectHistory |  | IHttpActionResult | Get backed history of current user. |
|  | GetStarredProject |  | IHttpActionResult | Get list reminded projects of current user. |
|  | GetCreatedProject |  | IHttpActionResult | Get list created projects of current user |
|  | DeleteProjectDraft | int | IHttpActionResult | Delete a draft project |
|  | DeleteProjectReminded | int | IHttpActionResult | Delete a reminded project |
|  | GetBackingInfo | string | IHttpActionResult | Get backing detail information |
|  | RemindProject | string | IHttpActionResult | Remind a project |
|  | GetListBacker | string | IHttpActionResult | Get backings list of a project |
|  | ReportProject | string, string | IHttpActionResult | Report a bad project |
|  | Comment | string, Object, string | IHttpActionResult | Add new comment to a project |
|  | ShowHideComment | int | IHttpActionResult | Set show/hide status of a comment |
|  | EditComment | int, string | IHttpActionResult | edit a comment |
|  | DeleteComment | int | IHttpActionResult | Delete a comment |
|  |  |  |  |  |

Table -22: User API Controller

#### MessageApiController

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Method | Parameter | Return | Description |
|  | NewMessage | Object | IHttpActionResult | Create new message |
|  | GetListConversations |  | IHttpActionResult | Get list message of current user |
|  | GetListSentConversations |  | IHttpActionResult | Get list sent message of current user. |
|  | GetListReceivedConversations |  | IHttpActionResult | Get list received message of current user. |
|  | GetConversation | int | IHttpActionResult | Get message detail. |
|  | Reply | Object | IHttpActionResult | Reply to a message |
|  | DeleteMessage | int | IHttpActionResult | Delete a message |
|  | DeleteMessageList | int[] | IHttpActionResult | Delete a list of messages. |
|  | GetNumberNewMessage |  | IHttpActionResult | Get number new message of current user. |

Table -23: Message API Controller

#### SlideApiController

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Method | Parameter | Return | Description |
|  | GetSlides |  | IHttpActionResult | Get list active slides |
|  | GetSlidesForAdmin |  | IHttpActionResult | Get list slides for admin page. |
|  | CreateSlide | Object | IHttpActionResult | Create new slide |
|  | DeleteSlide | int | IHttpActionResult | Delete a slide |
|  | ChangeSlideStatus | int | IHttpActionResult | Active or deactive a slide. |
|  | EditSlide | Object | IHttpActionResult | Edit a slide information |
|  | ChangeOrder | int, string | IHttpActionResult | Change order of a slide. |

Table -23: Message API Controller

#### ReportApiController

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Method | Parameter | Return | Description |
|  | GetReportProjects |  | IHttpActionResult | Get list project report for admin. |
|  | GetReportUsers |  | IHttpActionResult | Get list user report for admin. |
|  | changeReportStatus |  | IHttpActionResult | Change status of a report |

Table -24: Report API Controller

#### CategoryApiController

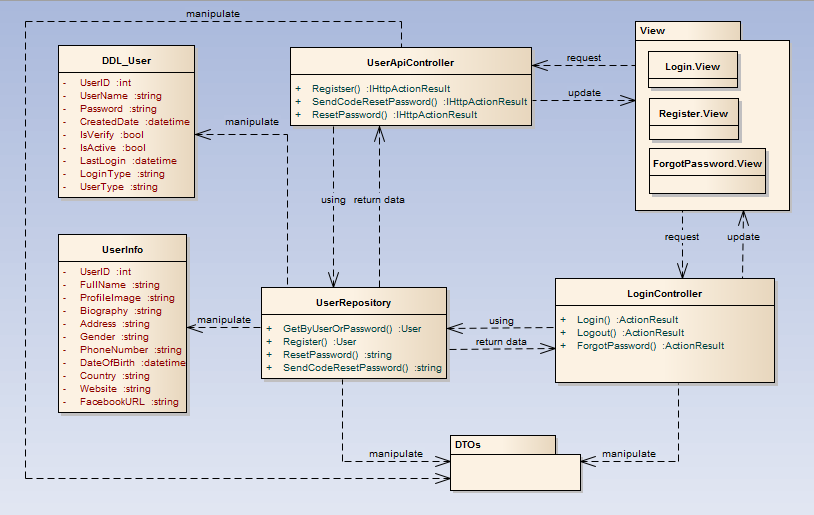
|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Method | Parameter | Return | Description |
|  | listDataForStatistic |  | IHttpActionResult | Get list data for statistic page. |
|  | getAllCategories |  | IHttpActionResult | Get all active categories |
|  | GetCategoryProjectCount |  | IHttpActionResult | Get all active categories with project count. |
|  | GetCategoriesForCreate |  | IHttpActionResult | Get list category for create project page. |
|  | GetCategoriesForAdmin |  | IHttpActionResult | Get list categories for admin page. |
|  | ChangeCategoryStatus | int | IHttpActionResult | Active, deactive a category |
|  | AddNewCategory | Object | IHttpActionResult | Add new category |
|  | EditCategory | Object | IHttpActionResult | Edit information of a category |

Table -25: Category API Controller

# Function

## Common

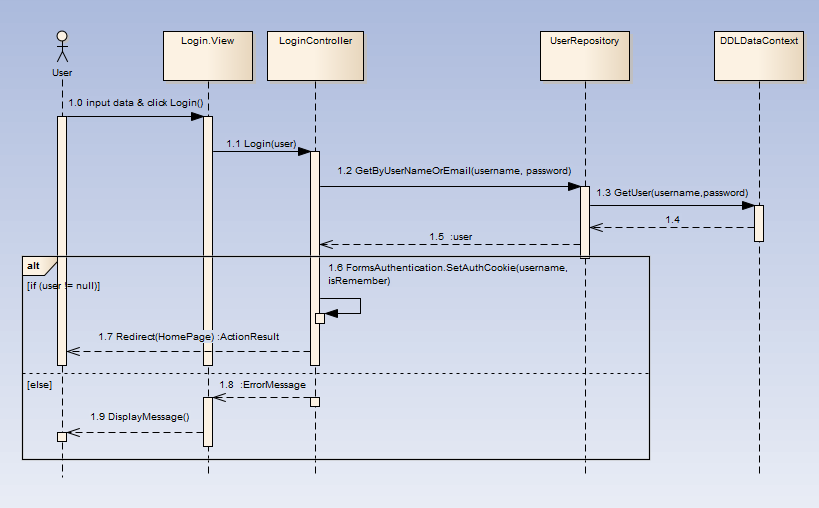
### Class diagram



1. Common functions class diagram

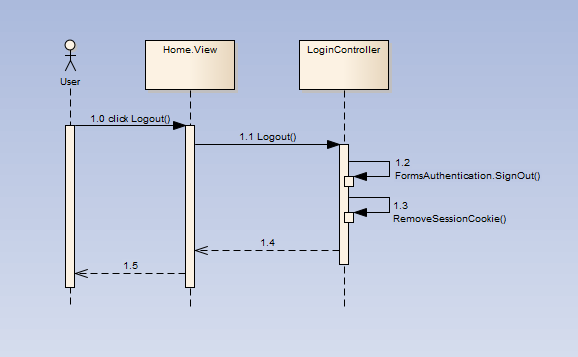
### Sequence diagram

#### Login



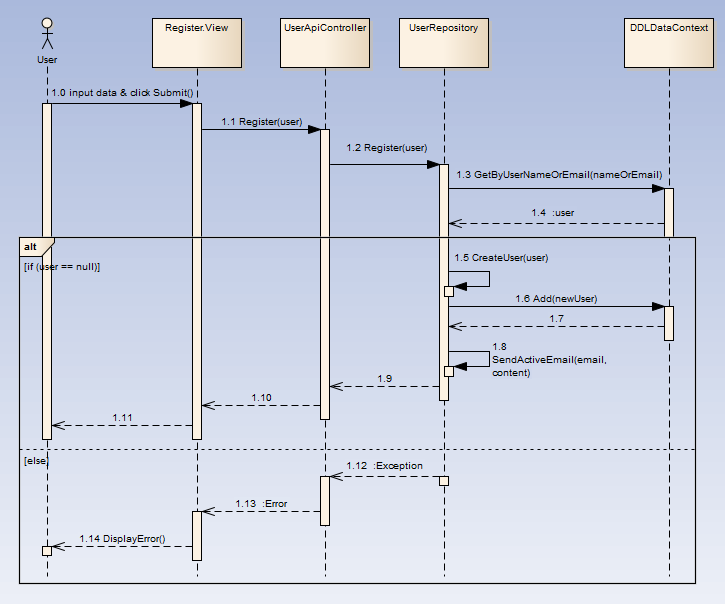
1. Login sequence diagram

#### Logout



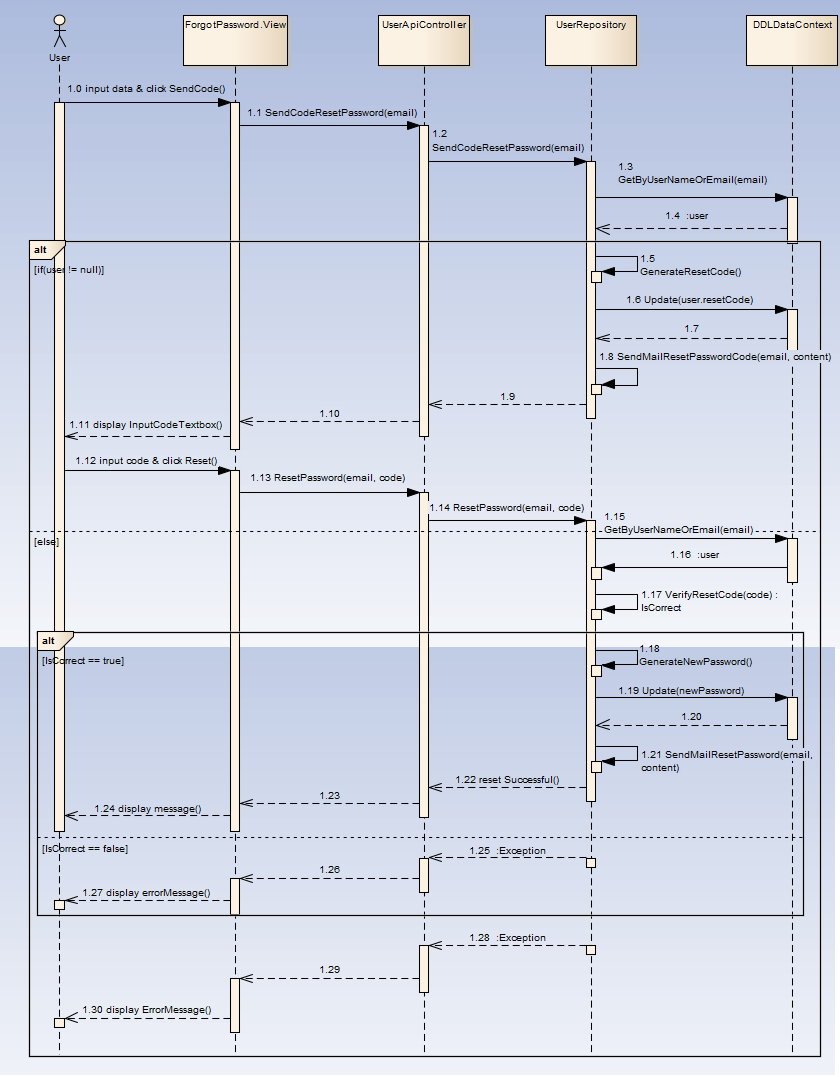
1. Logout sequence diagram

#### Register



1. Register sequence diagram

#### Forgot Password



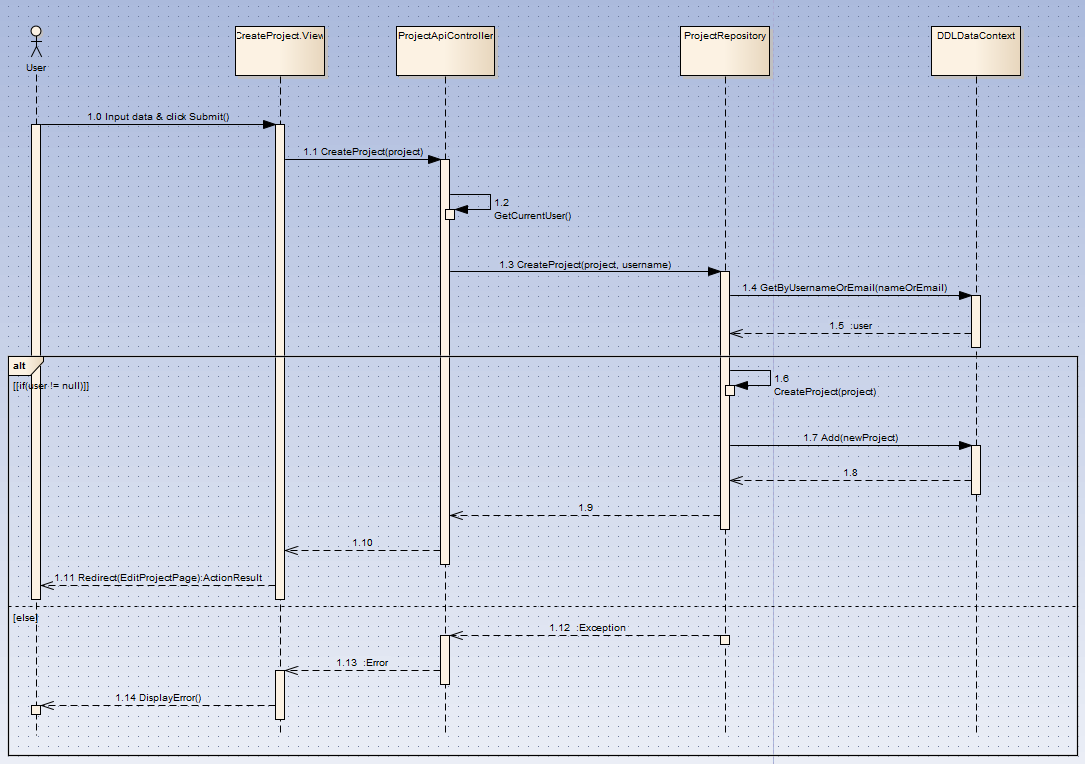
1. Forgot password sequence diagram

## Project

### Class diagram

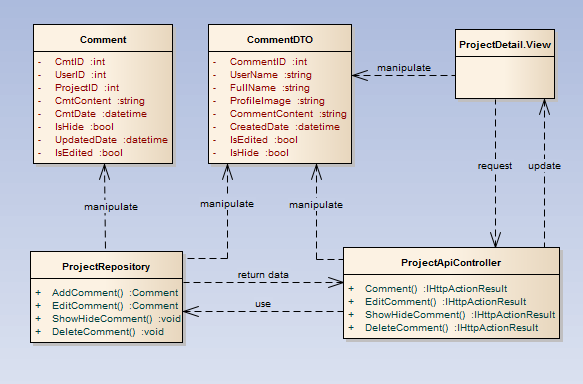
### Sequence diagram

#### Create project



## Comment

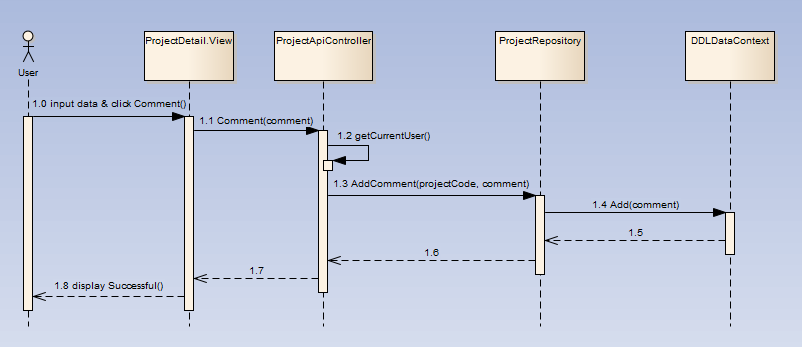
### Class diagram



1. Comment function class diagram

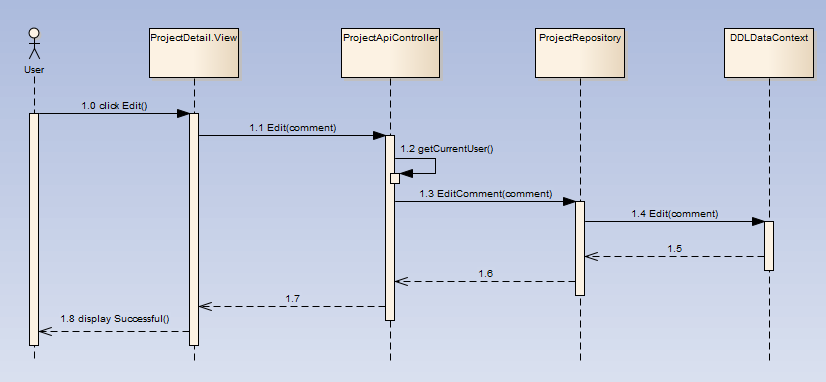
### Sequence diagram

#### Add new comment



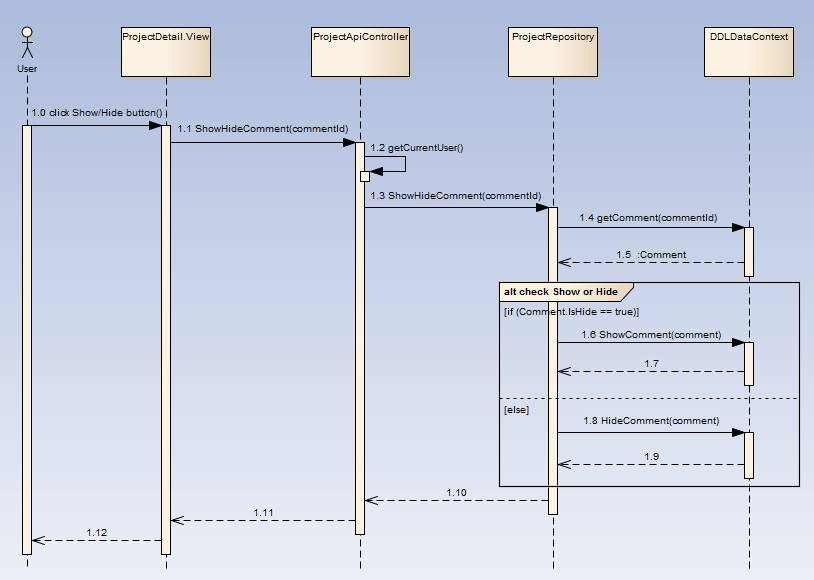
1. Add new comment sequence diagram

#### Edit comment



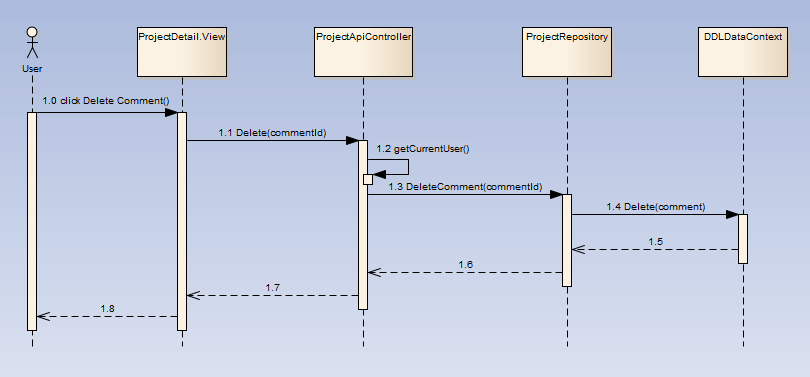
1. Edit comment sequence diagram

#### Show/hide comment



1. Show/hide comment sequence diagram

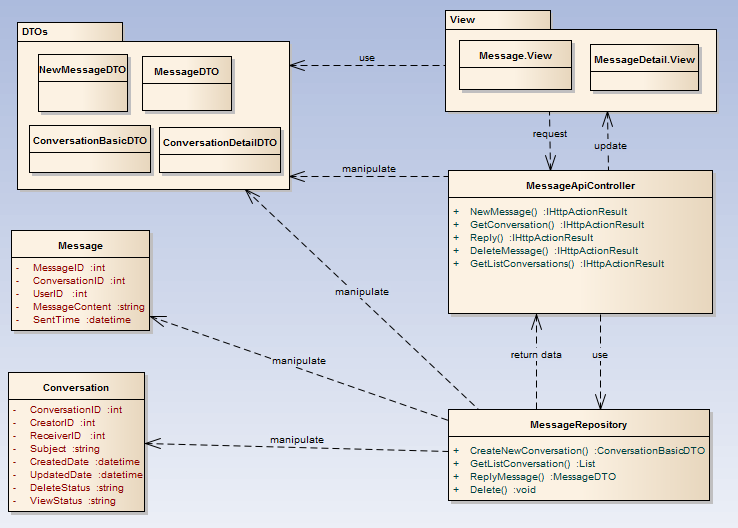
#### Delete comment



1. Delete comment sequence diagram

## Message

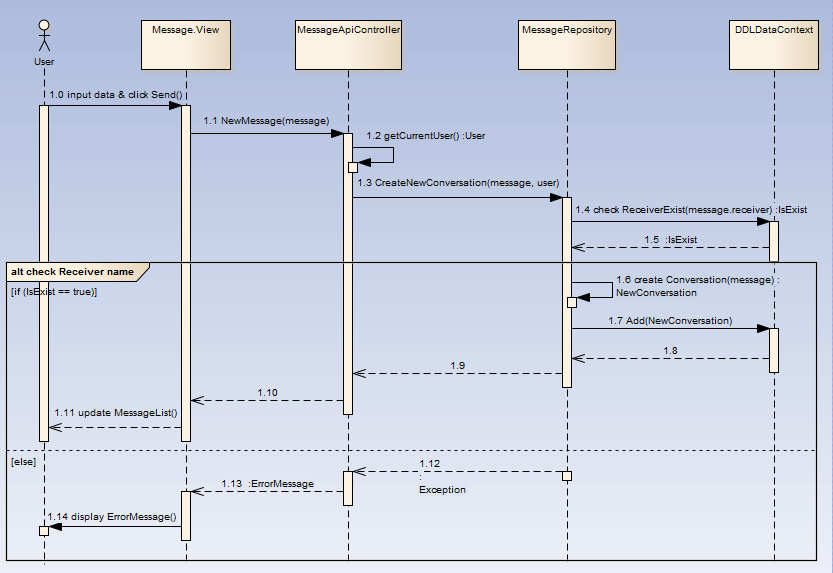
### Class diagram



1. Message function class diagram

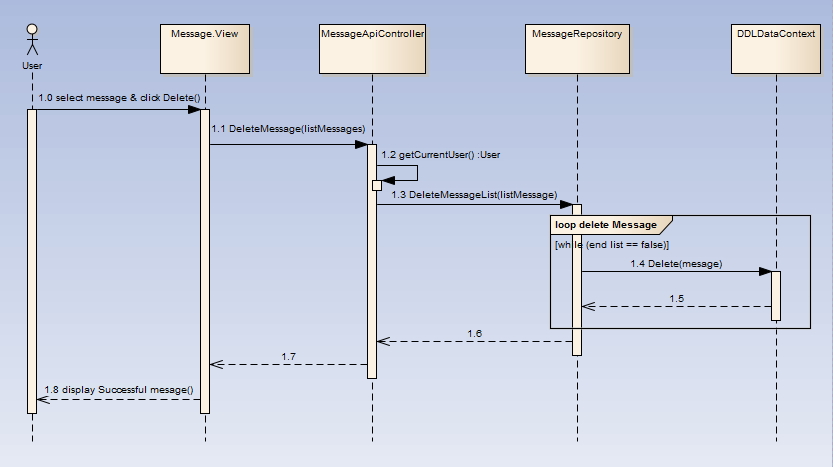
### Sequence diagram

#### Send message



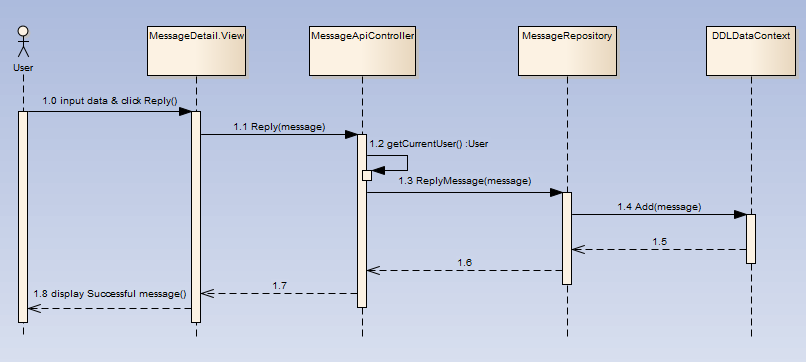
1. Send message sequence diagram

#### Delete message



1. Delete message sequence diagram

#### Reply message



1. Reply message sequence diagram

## User Profile

### Class diagram

### Sequence diagram

## Manage Report

### Class diagram

### Sequence diagram

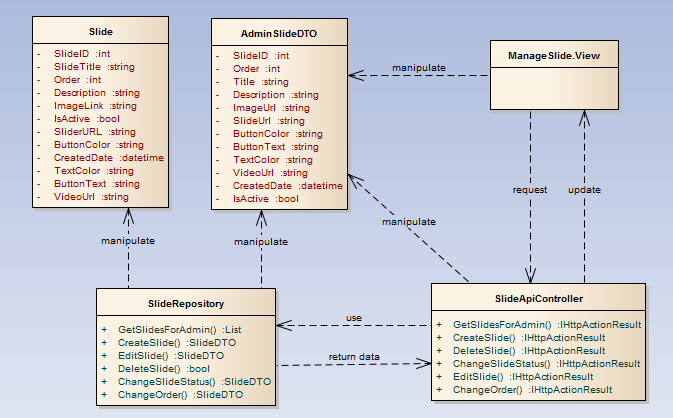
## Manage User

### Class diagram

### Sequence diagram

## Manage Slide

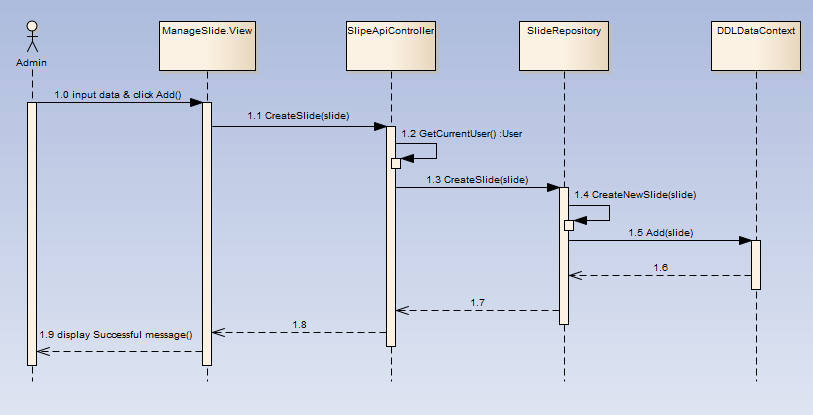
### Class diagram



1. Manage Slide class diagram

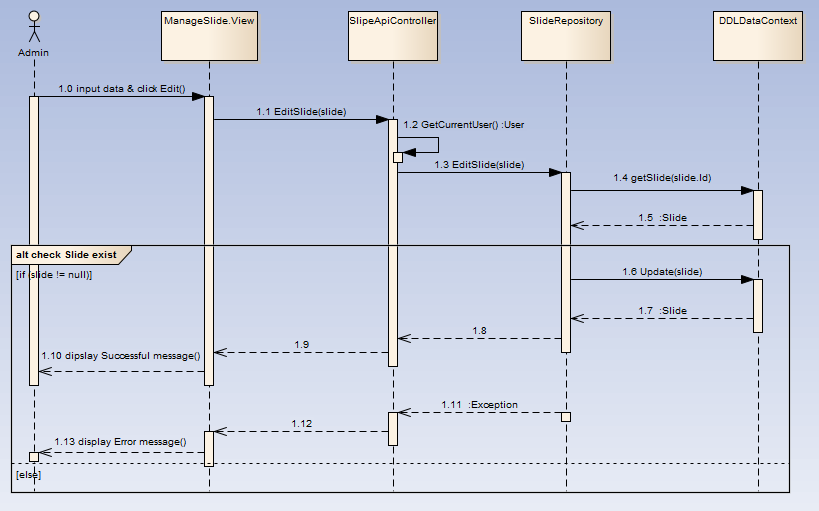
### Sequence diagram

#### Add slide



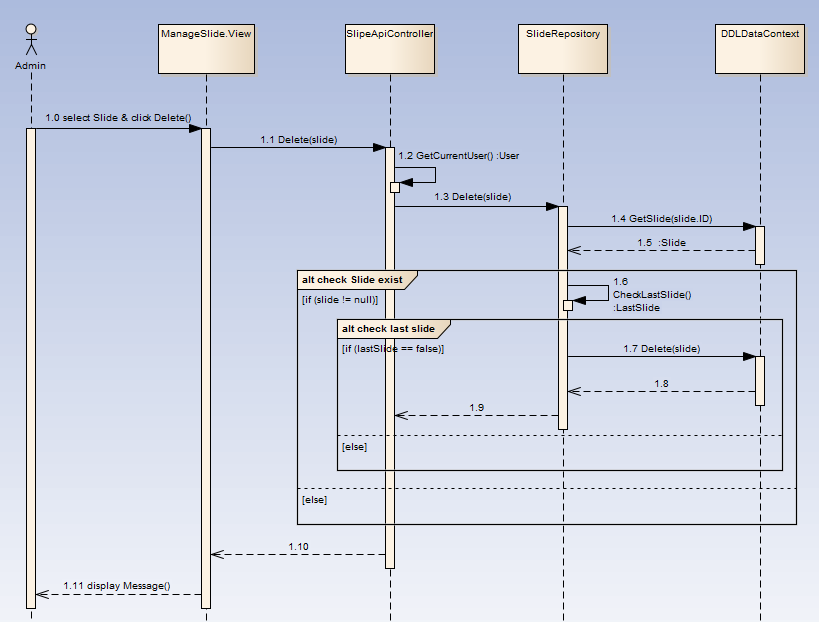
1. Add slide sequence diagram

#### Edit slide



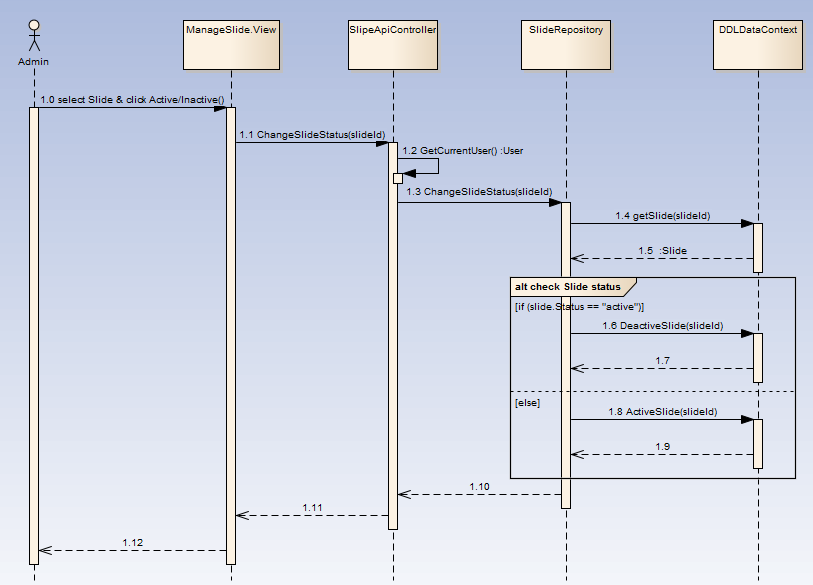
1. Edit slide sequence diagram

#### Delete slide



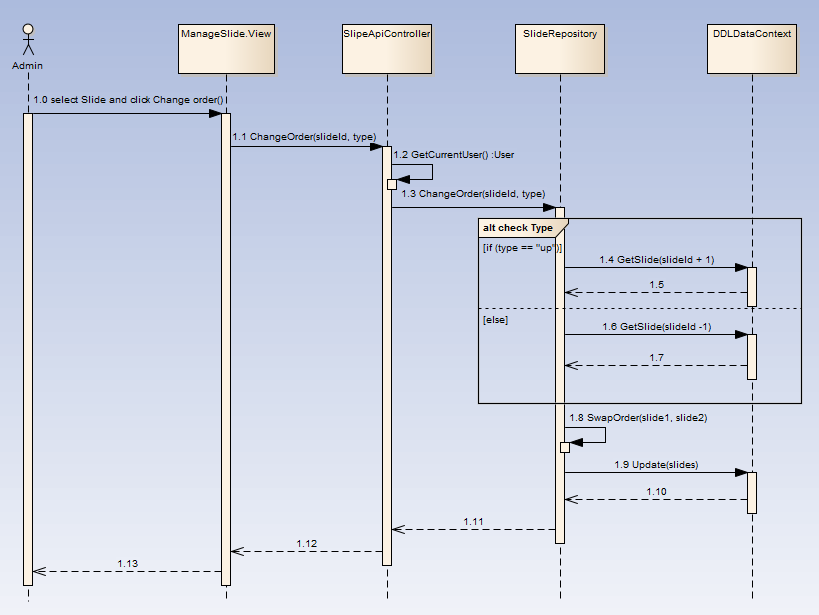
1. Delete slide sequence diagram

#### Active/deactive slide



1. Active/deactive slide sequence diagram

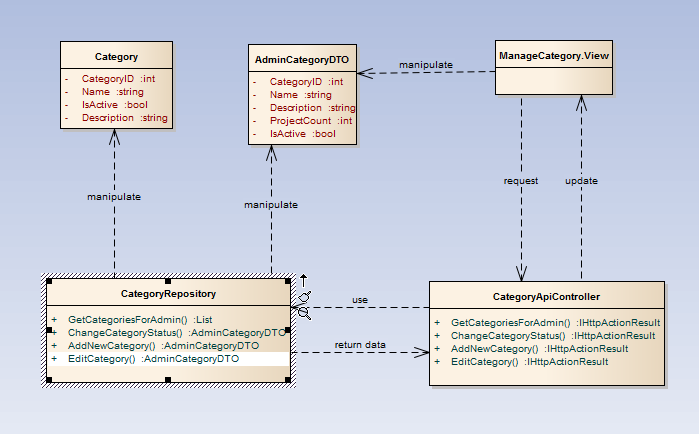
#### Change slide order



1. Change slide order sequence diagram

## Manage Category

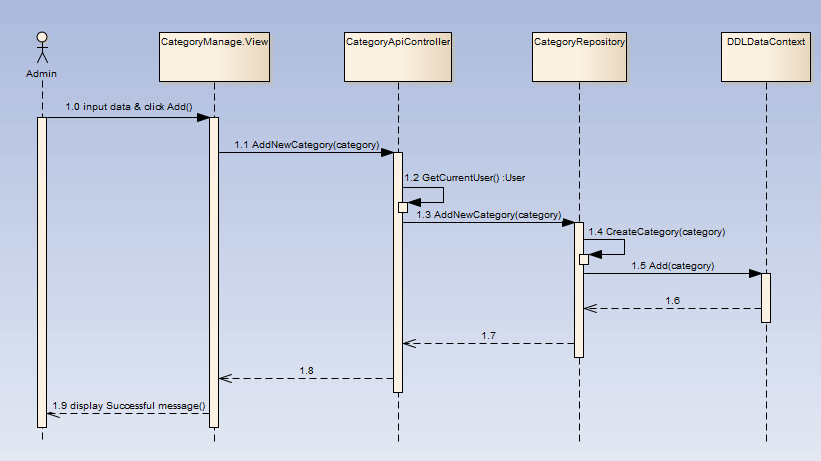
### Class diagram



1. Manage category class diagram

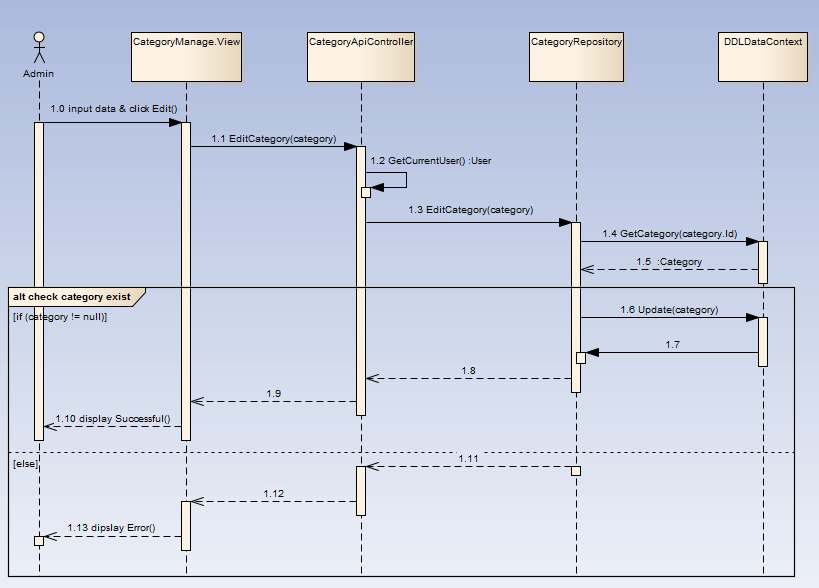
### Sequence diagram

#### Add category



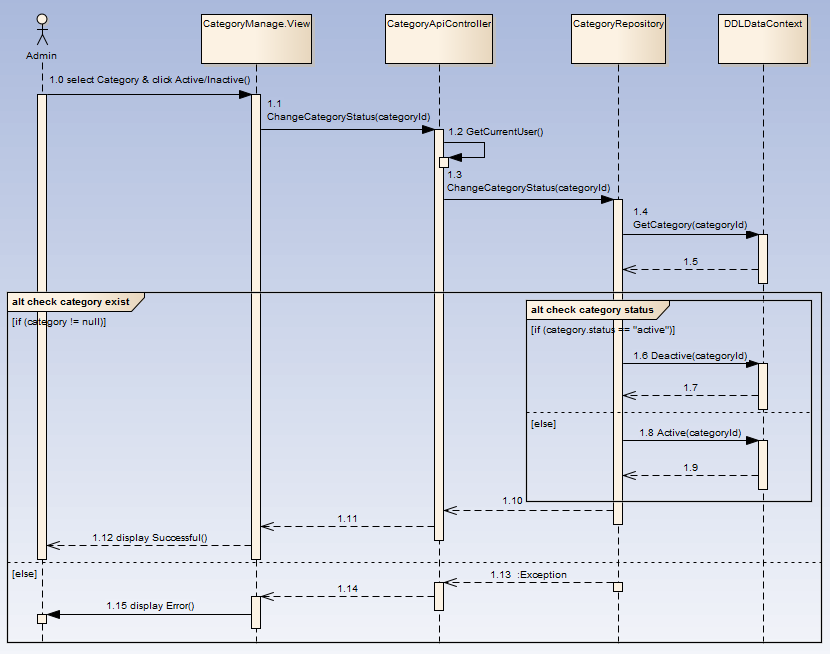
1. Add category sequence diagram

#### Edit category



1. Edit category sequence diagram

#### Active/deactive category



1. Active/deactive category sequence diagram

## Manage Backing

### Class diagram

### Sequence diagram