Discussion Web

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**Detailed Design**

**Version 1.0**

**25th Nov, 2013**

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**APPROVERS**

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# INTRODUCTION

This document will be created by developer and have to approve by PM, document help developer can implement code exactly that requirement wishes. The most important parts are design document, in particular are activity diagrams, class diagrams and sequence diagrams.

## Purpose

The main purpose is help developer can understand the functions, work flow and also the methods they are going to be implementing code. This document has to review and approve by project manager, as well as customer.

## Scope

Developer have to follow this document to implement their code, the document will affected the qualification of code.

## Definitions, Acronyms and Abbreviations

|  |  |
| --- | --- |
| **Acronym** | **Reference** |
| PM | Project Manager |
| UI | User Interface |
|  |  |

## References

1. From DDD homework as customer requirement on 23, November 2013
2. HNVN\_TR\_02027\_DetailedDesignDocument\_CoursePresentation.pdf at Course Material on Intranet.harveynash.vn
3. HNVN\_TR\_02027\_DetailedDesignDocument\_Diagrams\_CoursePresentation.pdf at Course Material on Intranet.harveynash.vn

## Overview

In this session there are some important parts need to be clearly understood, Activity diagram, Sequence diagram, Class diagram

# DESIGN SEPECIFICATION FOR <THE SPECIFIED USE CASE>

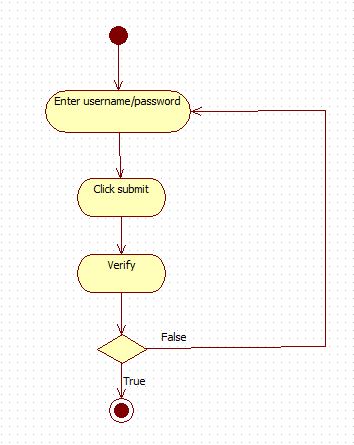
## Summary

To be defined

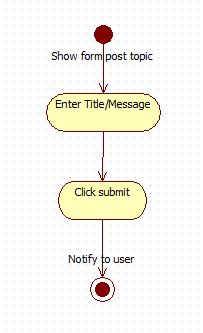
## Use case diagram

## Activity Diagram

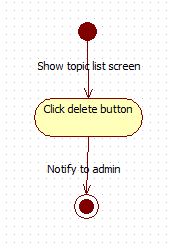
Login



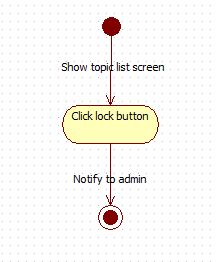
Post topic



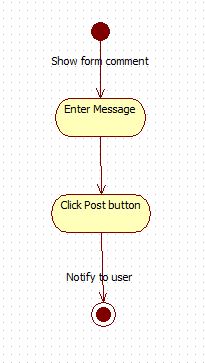
Delete topic



Lock topic

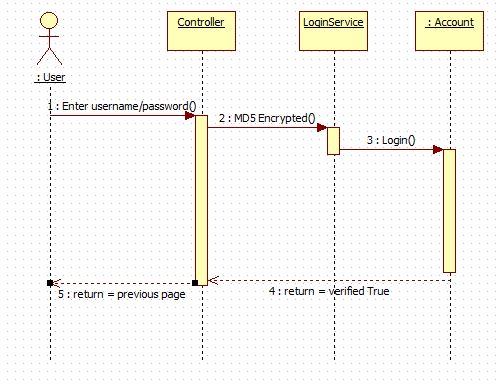


Post comment

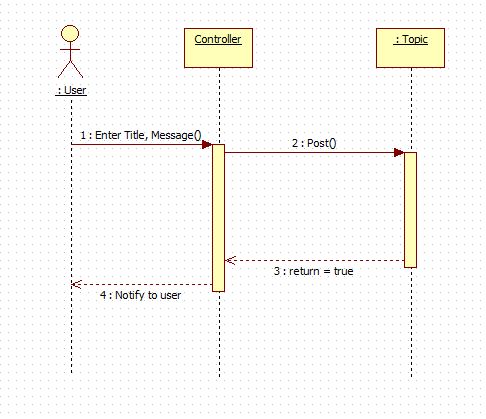


## Sequence Diagram

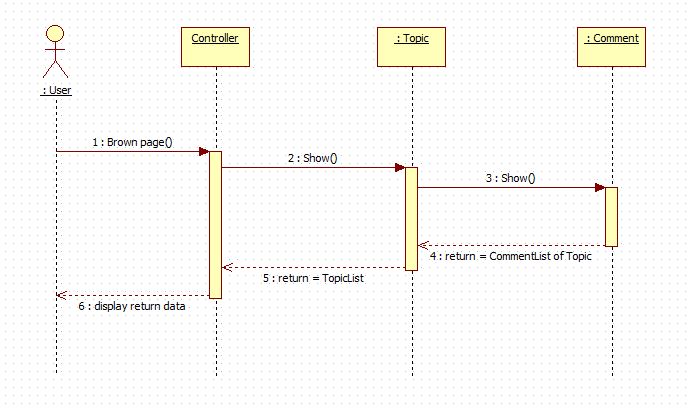
Login sequence diagram



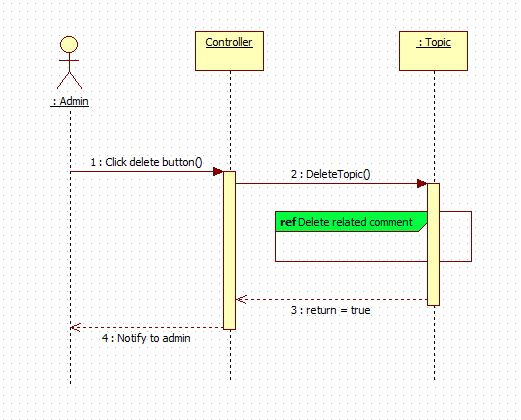
Post sequence diagram



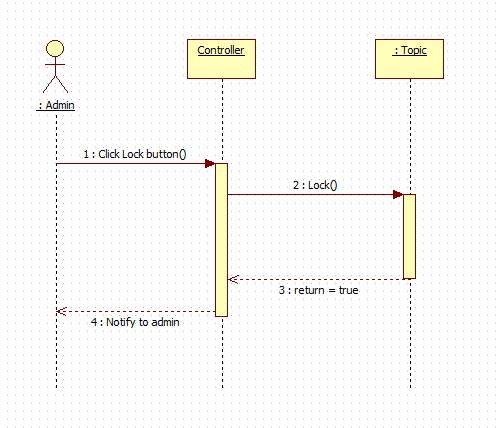
Show sequence diagram



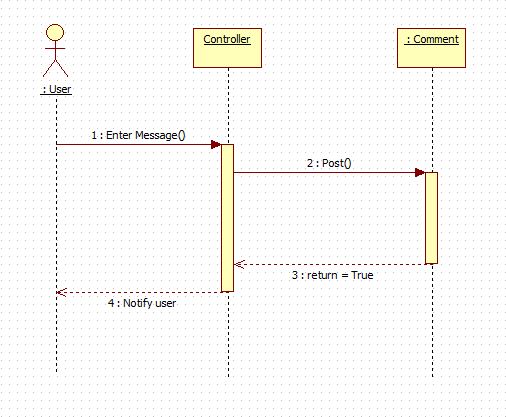
Delete topic sequence diagram



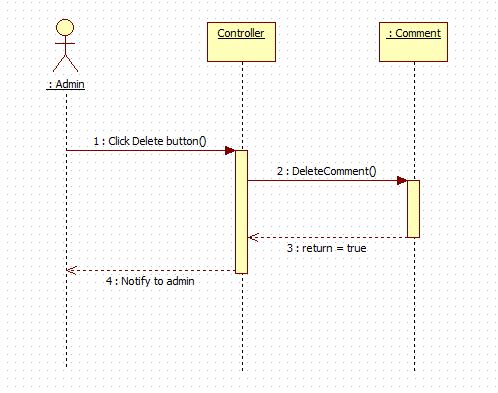
Lock topic sequence diagram



Post Comment sequence diagram



Delete comment diagram



## Screens Design

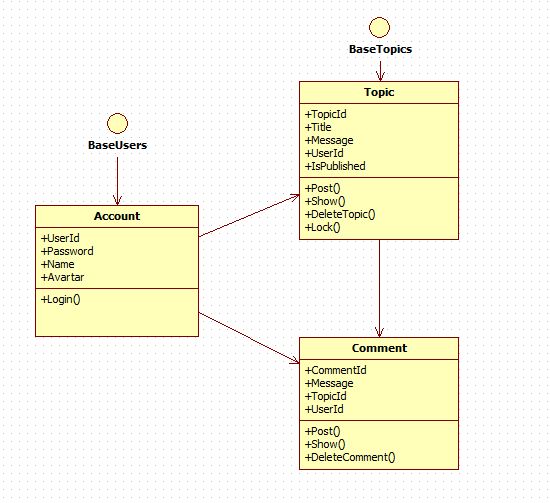
### Screen XYZ

**Security Group**:

|  |  |  |
| --- | --- | --- |
| No | Data | Data Description |
| 01 | User Login / password | MD5 Encrytion |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| No | Actions | Action Description |
|  |  |  |
|  |  |  |

## Class Diagram



## Class Specification (s)

### Classes Summary

To be defined

### Class Details

#### **Class Account**

#### **Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Attribute | Type | Default | Note | Description |
| 01 | UserId | String |  | Public/ Static | User name of user |
| 02 | Password | String |  | Private | Encrypted password |
| 03 | Name | String |  | Public | Full name of user |
| 04 | Avartar | String |  | Public | Url of avatar picture |

#### **Methods**

|  |  |  |
| --- | --- | --- |
| No | Method | Description |
| 01 | Login() | To verify user login to system |
|  |  |  |
|  |  |  |

#### **Class Topic**

#### **Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Attribute | Type | Default | Note | Description |
| 01 | TopicId | Int |  | Public/ Static | Identity of topic |
| 02 | Title | String |  | Public | Title of topic |
| 03 | Message | String |  | Public | Content of topic |
| 04 | UserId | String |  | Public | User name of user |
| 05 | IsPublished | Boolean |  | Publich | The topic published or not |

#### **Methods**

|  |  |  |
| --- | --- | --- |
| No | Method | Description |
| 01 | Post() | Post a new topic |
| 02 | Show() | Shows a list of topic |
| 03 | DeleteTopic() | Delete a topic |
| 04 | Lock() | Lock a topic |

#### **Class Comment**

#### **Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Attribute | Type | Default | Note | Description |
| 01 | Message | String |  | Public | Content of comment/discuss |
| 02 | TopicId | Int |  | Public | Id of topic |
| 03 | UserId | String |  | Public | User name of user |

#### **Methods**

|  |  |  |
| --- | --- | --- |
| No | Method | Description |
| 01 | Post() | Post new comment in a topic |
| 02 | Show() | Shows comments of a topic |
| 03 | DeleteComment() | Delete a comment |

#### **Login Method**

|  |  |
| --- | --- |
| **Declaration** | |
| **Method Declaration** |  |
| **Description** | Login method will accept two arguments. Password must be encrypted MD5 |
| **Overrides** | |
| Not Applicable. | |
| **Parameter** | |
| **Name** | **Type** |
| **Username** | **string** |
| **Password** | **string** |
|  |  |
| **Return Type** | |
| Boolean | |
| **Throws** | |
| Null exception | |

#### **Post Topic Method**

|  |  |
| --- | --- |
| **Declaration** | |
| **Method Declaration** |  |
| **Description** | Post a new topic by user |
| **Overrides** | |
| Not Applicable. | |
| **Parameter** | |
| **Name** | **Type** |
| **Title** | **String** |
| **Message** | **String** |
|  |  |
| **Return Type** | |
| Boolean | |
| **Throws** | |
| Null exception | |

#### **Show Topic Method**

|  |  |
| --- | --- |
| **Declaration** | |
| **Method Declaration** |  |
| **Description** | Show all topic for user and admin |
| **Overrides** | |
| Not Applicable. | |
| **Parameter** | |
| **Name** | **Type** |
| **IsAdmin** | **Boolean** |
|  |  |
|  |  |
| **Return Type** | |
| ListTopic | |
| **Throws** | |
|  | |

#### **Delete Topic Method**

|  |  |
| --- | --- |
| **Declaration** | |
| **Method Declaration** |  |
| **Description** | Delete a topic |
| **Overrides** | |
| Not Applicable. | |
| **Parameter** | |
| **Name** | **Type** |
| **TopicId** | **Int** |
|  |  |
|  |  |
| **Return Type** | |
| Boolean | |
| **Throws** | |
|  | |

#### **Lock Topic Method**

|  |  |
| --- | --- |
| **Declaration** | |
| **Method Declaration** |  |
| **Description** | Lock a topic by admin |
| **Overrides** | |
| Not Applicable. | |
| **Parameter** | |
| **Name** | **Type** |
| **TopicId** | **Int** |
|  |  |
|  |  |
| **Return Type** | |
| Boolean | |
| **Throws** | |
|  | |

#### **Post Comment Method**

|  |  |
| --- | --- |
| **Declaration** | |
| **Method Declaration** |  |
| **Description** | Post a comment in a topic by user |
| **Overrides** | |
| Not Applicable. | |
| **Parameter** | |
| **Name** | **Type** |
| **Message** | **String** |
| **TopicId** | **Int** |
| **UserId** | **String** |
| **Return Type** | |
| Boolean | |
| **Throws** | |
| Null exception | |

#### **Show Comment Method**

|  |  |
| --- | --- |
| **Declaration** | |
| **Method Declaration** |  |
| **Description** | Show comments in a topic |
| **Overrides** | |
| Not Applicable. | |
| **Parameter** | |
| **Name** | **Type** |
| **TopicId** | **Int** |
|  |  |
|  |  |
| **Return Type** | |
| CommentList | |
| **Throws** | |
|  | |

#### **Delete Comment Method**

|  |  |
| --- | --- |
| **Declaration** | |
| **Method Declaration** |  |
| **Description** | Delete a comment |
| **Overrides** | |
| Not Applicable. | |
| **Parameter** | |
| **Name** | **Type** |
| **CommentId** | **Int** |
|  |  |
|  |  |
| **Return Type** | |
| Boolean | |
| **Throws** | |
|  | |

##### Implementation