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13 Bruton Street

London

W1J 6QA

Tel: +44 (0)20 7333 0033

Fax: +44 (0)20 7333 0032

Email: [Kiet.LeTuan@harveynash.com](mailto:Kiet.LeTuan@harveynash.com)

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|  |  |  |  |
| --- | --- | --- | --- |
|  | Name & Role | Date | Signature |
| **Originator** |  |  |  |
| **Reviewer/s** |  |  |  |
|  |  |  |  |
| **Approver/s** |  |  |  |

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# INTRODUCTION

## Purpose

## Scope

## Definitions, Acronyms and Abbreviations

|  |  |
| --- | --- |
| **Acronym** | **Reference** |
|  |  |
|  |  |
|  |  |

## References

## Overview

# DESIGN SEPECIFICATION FOR POST TOPIC USE CASE

## Summary

In this case, user supplied TOPIC information that user want to post onto the wall. System handle information and return result to the user.

## Use case diagram



## Activity Diagram



## Sequence Diagram



## Screens Design

### Screen

**Security Group**:

|  |  |  |
| --- | --- | --- |
| No | Data | Data Description |
|  |  |  |
|  |  |  |

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

## Class Diagram



## Class Specification (s)

### Classes Summary

### Class Details

#### **Class User**

#### **Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Attribute | Type | Default | Note | Description |
| 01 | username | string |  | Private | User’s username that use login to system. |
| 02 | password | string |  | Private | User’s password that use login to system. |
|  |  |  |  |  |  |

#### **Methods**

|  |  |  |
| --- | --- | --- |
| No | Method | Description |
|  |  |  |
|  |  |  |
|  |  |  |

##### Implementation

#### **Class Topic**

#### **Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Attribute | Type | Default | Note | Description |
| 01 | Id | Integer |  | Private | Topic identify |
| 02 | Content | String |  | Private | Topic content. |
| 03 | UserPost | User |  | Private | Who post topic. |
| 04 | Discussions | IList<Discussion> |  | Private | List discussion of the topic. |
| 05 | State | Integer |  | Private | Topic state (Deleted, Locked, Unlocked) |

#### **Methods**

|  |  |  |
| --- | --- | --- |
| No | Method | Description |
|  |  |  |
|  |  |  |
|  |  |  |

##### Implementation

#### **Class TopicController**

#### **Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Attribute | Type | Default | Note | Description |
| 01 | TopicService | ITopicService |  | Private | The service that handle topic’s business. |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

#### **Methods**

|  |  |  |
| --- | --- | --- |
| No | Method | Description |
| 01 | PostTopic | Post topic onto user’s wall. |
|  |  |  |
|  |  |  |

#### **PostTopic Method**

|  |  |
| --- | --- |
| **Declaration** | |
| **Method Declaration** |  |
| **Description** | Post topic onto user’s wall |
| **Overrides** | |
| Not Applicable. | |
| **Parameter** | |
| **Name** | **Type** |
| **topic** | **Topic** |
|  |  |
|  |  |
| **Return Type** | |
| Integer | |
| **Throws** | |
|  | |

#### **Class TopicService**

#### **Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Attribute | Type | Default | Note | Description |
| 01 | TopicRepository | ITopicRepository |  | Private | The repository that handle topic’s data access. |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

#### **Methods**

|  |  |  |
| --- | --- | --- |
| No | Method | Description |
| 01 | PostTopic | Handle post topic onto user’s wall at business layer. |
|  |  |  |
|  |  |  |

#### **PostTopic Method**

|  |  |
| --- | --- |
| **Declaration** | |
| **Method Declaration** |  |
| **Description** | Handle post topic onto user’s wall at business layer. |
| **Overrides** | |
| Not Applicable. | |
| **Parameter** | |
| **Name** | **Type** |
| **topic** | **Topic** |
|  |  |
|  |  |
| **Return Type** | |
| Integer | |
| **Throws** | |
|  | |

#### **Class TopicRepository**

#### **Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Attribute | Type | Default | Note | Description |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

#### **Methods**

|  |  |  |
| --- | --- | --- |
| No | Method | Description |
| 01 | PostTopic | Handle post topic onto user’s wall at data access layer. |
|  |  |  |
|  |  |  |

#### **PostTopic Method**

|  |  |
| --- | --- |
| **Declaration** | |
| **Method Declaration** |  |
| **Description** | Handle post topic onto user’s wall at data access layer. |
| **Overrides** | |
| Not Applicable. | |
| **Parameter** | |
| **Name** | **Type** |
| **topic** | **Topic** |
|  |  |
|  |  |
| **Return Type** | |
| Integer | |
| **Throws** | |
|  | |

# DESIGN SEPECIFICATION FOR DISCUSS TOPIC USE CASE

## Summary

In this case, user provided discuss information that use to discuss for current topic. System handle discussion information and return result to user.

## Use case diagram



## Activity Diagram



## Sequence Diagram



## Screens Design

### Screen

**Security Group**:

|  |  |  |
| --- | --- | --- |
| No | Data | Data Description |
|  |  |  |
|  |  |  |

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

## Class Diagram



## Class Specification (s)

### Classes Summary

### Class Details

#### **Class User (Reference 2.7.2.1)**

#### **Class Topic (Reference 2.7.2.2)**

#### **Class Discussion**

#### **Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Attribute | Type | Default | Note | Description |
| 01 | Id | int |  | Private | Discussion identify |
| 02 | Content | string |  | Private | Discussion content. |
|  |  |  |  |  |  |

#### **Methods**

|  |  |  |
| --- | --- | --- |
| No | Method | Description |
|  |  |  |
|  |  |  |
|  |  |  |

##### Implementation

#### **Class TopicController**

#### **Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Attribute | Type | Default | Note | Description |
| 01 | TopicService | ITopicService |  | Private | The service that handle topic’s business. |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

#### **Methods**

|  |  |  |
| --- | --- | --- |
| No | Method | Description |
| 01 | PostDiscussion | Post discussion about the topic. |
|  |  |  |
|  |  |  |

#### **PostDiscussion Method**

|  |  |
| --- | --- |
| **Declaration** | |
| **Method Declaration** |  |
| **Description** | Post discussion about the topic. |
| **Overrides** | |
| Not Applicable. | |
| **Parameter** | |
| **Name** | **Type** |
| **discussion** | **Discussion** |
|  |  |
|  |  |
| **Return Type** | |
| Integer | |
| **Throws** | |
|  | |

##### Implementation

#### **Class TopicService**

#### **Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Attribute | Type | Default | Note | Description |
| 01 | TopicRepository | ITopicRepository |  | Private | The repository that handle topic’s data access. |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

#### **Methods**

|  |  |  |
| --- | --- | --- |
| No | Method | Description |
| 01 | PostDiscussion | Handle post discussion about the topic at business layer. |
|  |  |  |
|  |  |  |

#### **PostDiscussion Method**

|  |  |
| --- | --- |
| **Declaration** | |
| **Method Declaration** |  |
| **Description** | Handle post discussion about the topic at business layer. |
| **Overrides** | |
| Not Applicable. | |
| **Parameter** | |
| **Name** | **Type** |
| **discussion** | **Discussion** |
|  |  |
|  |  |
| **Return Type** | |
| Integer | |
| **Throws** | |
|  | |

##### Implementation

#### **Class TopicRepository**

#### **Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Attribute | Type | Default | Note | Description |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

#### **Methods**

|  |  |  |
| --- | --- | --- |
| No | Method | Description |
| 01 | PostDiscussion | Handle post discussion about the topic at data access layer. |
|  |  |  |
|  |  |  |

#### **PostDiscussion Method**

|  |  |
| --- | --- |
| **Declaration** | |
| **Method Declaration** |  |
| **Description** | Handle post discussion about the topic at data access layer. |
| **Overrides** | |
| Not Applicable. | |
| **Parameter** | |
| **Name** | **Type** |
| **discussion** | **Discussion** |
|  |  |
|  |  |
| **Return Type** | |
| Integer | |
| **Throws** | |
|  | |

##### Implementation

# DESIGN SEPECIFICATION FOR change TOPIC state USE CASE

## Summary

In this case, user provided topic information and new topic’s state. System handle information and return result to user.

## Use case diagram



## Activity Diagram



## Sequence Diagram



## Screens Design

### Screen

**Security Group**:

|  |  |  |
| --- | --- | --- |
| No | Data | Data Description |
|  |  |  |
|  |  |  |

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

## Class Diagram



## Class Specification (s)

### Classes Summary

### Class Details

#### **Class User (Reference 2.7.2.1)**

#### **Class Topic (Reference 2.7.2.2)**

#### **Class TopicController**

#### **Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Attribute | Type | Default | Note | Description |
| 01 | TopicService | ITopicService |  | Private | The service that handle topic’s business. |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

#### **Methods**

|  |  |  |
| --- | --- | --- |
| No | Method | Description |
| 01 | ChangeTopicState | Change state for a topic. |
|  |  |  |
|  |  |  |

#### **ChangeTopicState Method**

|  |  |
| --- | --- |
| **Declaration** | |
| **Method Declaration** |  |
| **Description** | Change state for a topic. |
| **Overrides** | |
| Not Applicable. | |
| **Parameter** | |
| **Name** | **Type** |
| **topic** | **Topic** |
|  |  |
|  |  |
| **Return Type** | |
| Integer | |
| **Throws** | |
|  | |

##### Implementation

#### **Class TopicService**

#### **Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Attribute | Type | Default | Note | Description |
| 01 | TopicRepository | ITopicRepository |  | Private | The repository that handle topic’s data access. |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

#### **Methods**

|  |  |  |
| --- | --- | --- |
| No | Method | Description |
| 01 | ChangeTopicState | Handle change topic state at business layer. |
|  |  |  |
|  |  |  |

#### **ChangeTopicSate Method**

|  |  |
| --- | --- |
| **Declaration** | |
| **Method Declaration** |  |
| **Description** | Handle change topic state at business layer. |
| **Overrides** | |
| Not Applicable. | |
| **Parameter** | |
| **Name** | **Type** |
| **topic** | **Topic** |
|  |  |
|  |  |
| **Return Type** | |
| Integer | |
| **Throws** | |
|  | |

##### Implementation

#### **Class TopicRepository**

#### **Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Attribute | Type | Default | Note | Description |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

#### **Methods**

|  |  |  |
| --- | --- | --- |
| No | Method | Description |
| 01 | ChangeTopicState | Handle change topic state at data access layer. |
|  |  |  |
|  |  |  |

#### **ChangeTopicState Method**

|  |  |
| --- | --- |
| **Declaration** | |
| **Method Declaration** |  |
| **Description** | Handle change topic state at data access layer. |
| **Overrides** | |
| Not Applicable. | |
| **Parameter** | |
| **Name** | **Type** |
| **topic** | **Topic** |
|  |  |
|  |  |
| **Return Type** | |
| Integer | |
| **Throws** | |
|  | |

##### Implementation

#### **Class UserRepository**

#### **Attributes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Attribute | Type | Default | Note | Description |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

#### **Methods**

|  |  |  |
| --- | --- | --- |
| No | Method | Description |
| 01 | GetUserPermissionByUsername | Get user’s permission by username. |
|  |  |  |
|  |  |  |

#### **GetUserPermissionByUsername Method**

|  |  |
| --- | --- |
| **Declaration** | |
| **Method Declaration** |  |
| **Description** | Get user’s permission by username. |
| **Overrides** | |
| Not Applicable. | |
| **Parameter** | |
| **Name** | **Type** |
| **username** | **String** |
|  |  |
|  |  |
| **Return Type** | |
| Integer | |
| **Throws** | |
|  | |

##### Implementation