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|  |
| Capstone Project Document |

**Vietnamese Medicinal Plants Network**

Report #2 – Data Design

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**- Hanoi, 03/2016 –**

# SIGNATURE PAGE

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# INTRODUCTION

## Purpose

VMN data design document describes structure of database and file structure of system including internal file structure as well as interface file structure.

## Acronyms and Definitions

|  |  |
| --- | --- |
| **Acronym & Abbreviation** | **Definition** |
| VMN | Vietnam Medicinal Plants Network |
| FU | FPT University |
| Q&A | Question and Answer |

Table ‑: Acronyms and Definitions

## References

|  |  |
| --- | --- |
| **Document** | **Title** |
| Class Design Document | VMN\_Class Design\_v1.0\_EN |
| Architecture Design | VMN\_Architecture Design\_v1.0\_EN |
| Software Requirement Specification | VMN\_Software Requirement Specification\_v1.0\_EN |

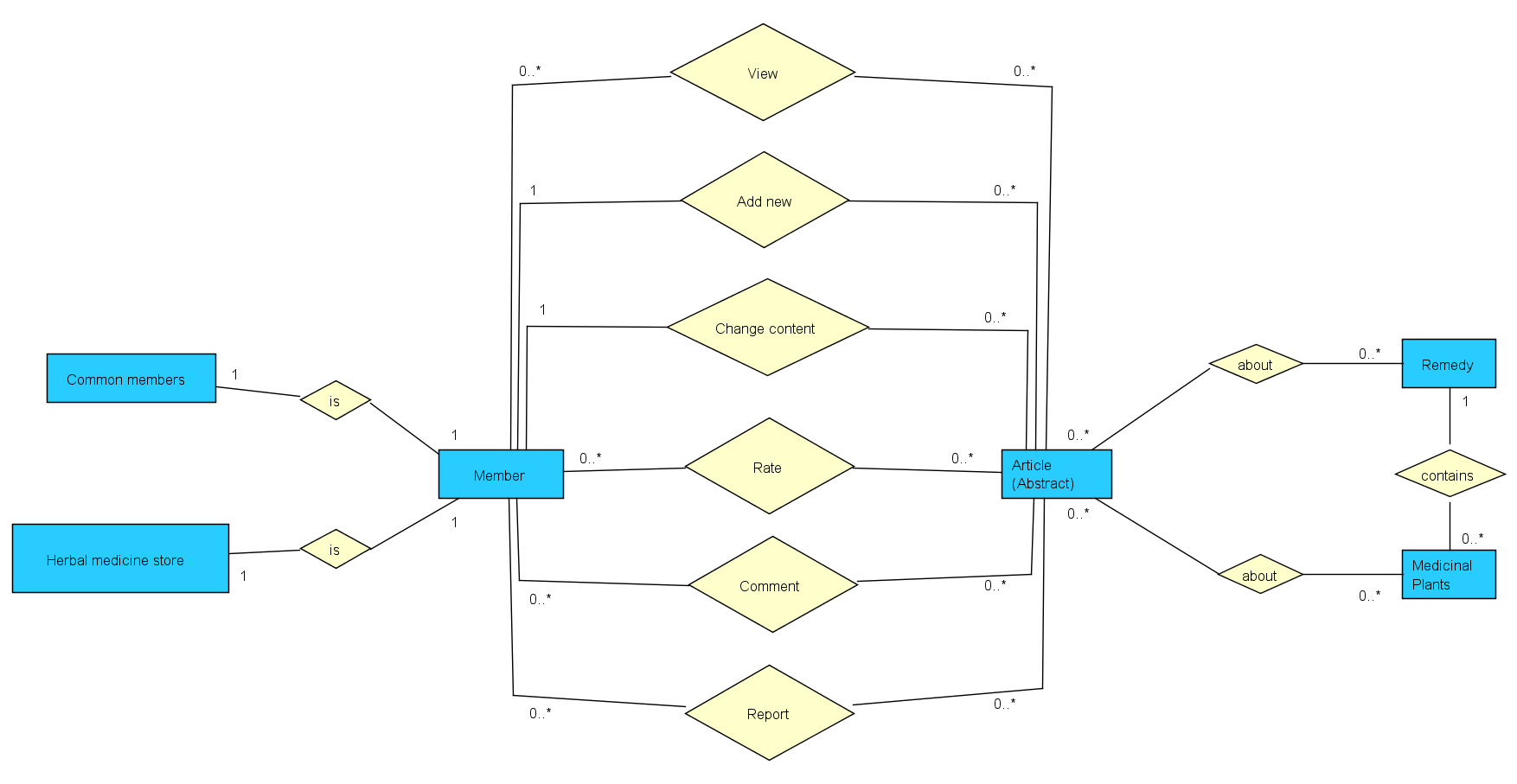
Table ‑: References

## Overview

This document describes relationship between entities and properties of each entity.

# Database

## Entity Relationship Diagram



**Figure 2‑1:** Entity Relationship Diagram

### Entity description

|  |  |  |
| --- | --- | --- |
| **No** | **Entity** | **Description** |
|  | Member | User is all people who using VMN feature |
|  | Article | An article which user created, includes content, photo to describe the medicinal plants/remedy. |
|  | Common members | User is not herbal medicine store |
|  | Herbal medicine store | User(special) can register to show all store’s information (Remedy/medicinal plants/location/contact) |
|  | Remedy | An article describe the remedy |
|  | Medicinal plants | An article describe the medicinal plants |

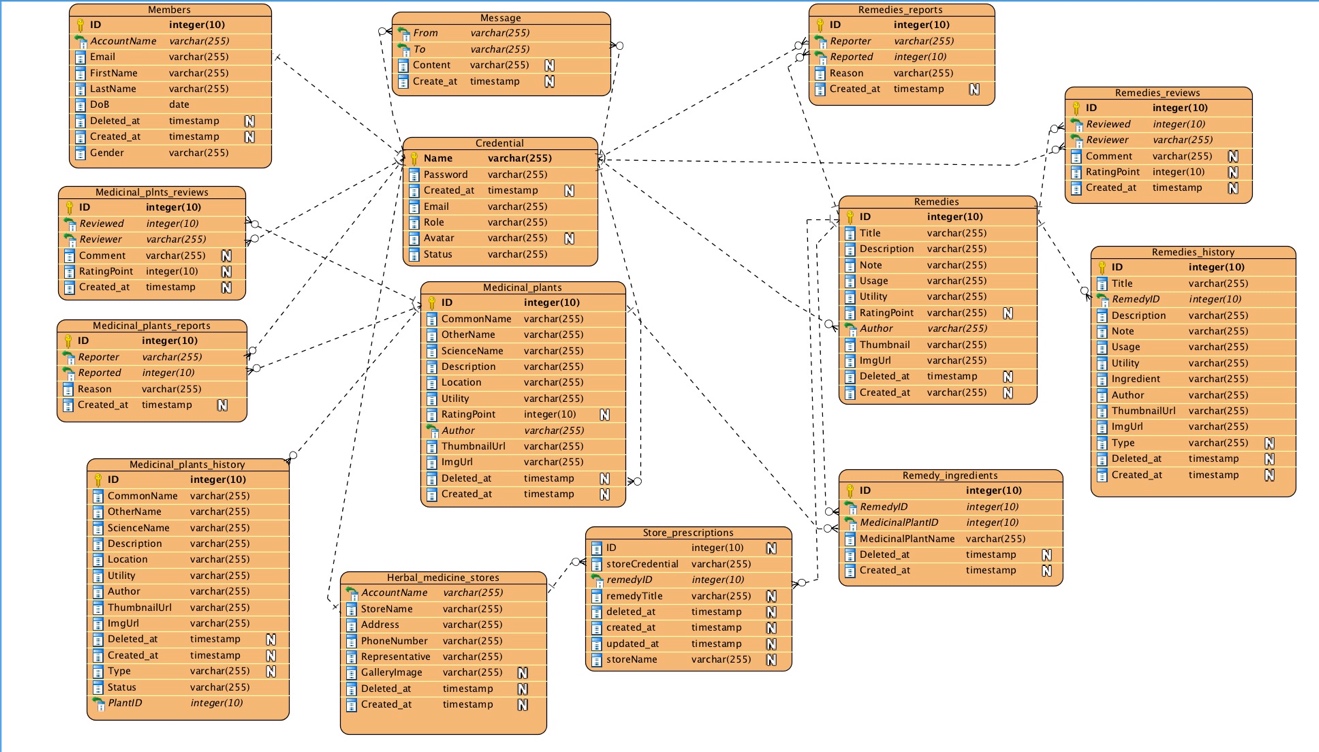
**Table 2-3:** Entity description

### Relationship

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Relation** | **Properties** | **From** | **To** | **Description** |
|  | CONTAINS | None | Remedy | Medicinal plants | A remedy contains many medicinal plants |
|  | HAS | None | Remedy | Update | An update of article which was changed by contributor |
|  | HAS | None | Medicinal plants | Update | An update of article which was changed by contributor |
|  | IS | None | Members | Common members | A member is a Common members |
|  | IS | None | Members | Herbal medicine store | A member is a Herbal medicine store |
|  | ABOUT | None | Article | Remedy | An article which content about remedy |
|  | ABOUT | None | Article | Medicinal plants | An article which content about medicinal plants |
|  | COMMENT | MemberID  ArticleID | Members | Article | Action comment which user comment their opinion to article |
|  | BASIC SEARCH | MemberID  ArticleID | Members | Article | Action search an article by name of user |
|  | ADVANCE SEARCH | MemberID  ArticleID | Members | Article | Action search an article by multiple conditions of user |
|  | REPORT | MemberID  ArticleID | Members | Article | Action report which user report an article |
|  | ADD NEW | None | Members | Article | Action add new an article which user contribute a new article |
|  | REPORT | MemberID  ArticleID | Members | Article | Action report which User report an article |
|  | CHANGE CONTENT | MemberID  ArticleID | Members | Article | Action Change which user changed an article |
|  | RATE | MemberID  ArticleID | Members | Article | Action rate which user rate an article |

Table ‑: Relationship description

## Table Diagram



**Figure 2‑2:** Table Diagram

### Credential table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Allow Null** | **Description** |
|  | Name | String | No | User’s name |
|  | Password | String | No | User’s password |
|  | Created\_at | Timestamps |  | The time that account was created |
|  | Email | String | No | User’s email |
|  | Role | String | No | Member’s role |
|  | Avatar | String |  | Link to avatar |
|  | Status | String | No | Member’s status |

Table ‑: Credential table

### Message table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Allow Null** | **Description** |
|  | From | String | No | Sender |
|  | To | String | No | Receiver |
|  | Created\_at | Timestamp |  | The time that message was created |
|  | Content | String |  | Content of message |

Table ‑: Message table

### Medicinal\_plants table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Allow Null** | **Description** |
|  | ID | int | No | Medicinal plant’s ID |
|  | CommonName | String | No | Medicinal plant’s Common Name |
|  | OtherName | String | No | Medicinal plant’s Other Name |
|  | ScienceName | String | No | Medicinal plant’s Science Name |
|  | Description | String | No | Medicinal plant’s Description |
|  | Location | String | No | Medicinal plant’s Location |
|  | Utility | String | No | Medicinal plant’s Utility |
|  | RatingPoint | Int |  | Medicinal plant’s RatingPoint |
|  | Author | String | No | Medicinal plant’s Author |
|  | ThumbnaiUrl | Text | No | Link to thumbnail image |
|  | ImgUrl | Text | No | Links to medicinal plant’s image |
|  | Deleted\_at | Timestamps |  | The time that medicinal plant was deleted |
|  | Created\_at | Timestamps |  | The time that medicinal plant was created |

Table ‑: Medicinal\_plants table

### Remedies table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Allow Null** | **Description** |
|  | ID | Int | No | Remedy’s ID |
|  | Title | String | No | Remedy’s Title |
|  | Description | String | No | Remedy’s Description |
|  | Note | String | No | Remedy’s Note |
|  | Usage | String | No | Remedy’s Usage |
|  | Utility | String | No | Remedy’s Utility |
|  | RatingPoint | Int |  | Remedy’s RatingPoint |
|  | Author | String | No | Remedy’s Author |
|  | ThumbnailUrl | Text | No | Link to thumbnail image |
|  | ImgUrl | Text | No | Links to remedy’s image |
|  | Deleted\_at | Timestamps |  | The time that remedy was deleted |
|  | Created\_at | Timestamps |  | The time that remedy was created |

Table ‑: Remedies table

### Remedy\_ingredients table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Allow Null** | **Description** |
|  | ID | Int | No | Primary key of table |
|  | RemedyID | Int | No | Remedy’s ID |
|  | MedicinalPlantID | Int | No | Medicinal plant’s ID |
|  | MedicinalPlantName | String | No | Medicinal plant’s Name |
|  | Dosage |  |  |  |
|  | Deleted\_at | Timestamps |  | The time that record was deleted |
|  | Created\_at | Timestamps |  | The time that record was created |

Table ‑: Remedy\_ingredients table

### Members table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Allow Null** | **Description** |
|  | ID | INT | No | Member’s ID |
|  | AccountName | String | No | Member’s Account Name |
|  | Email | String | No | Member’s Email |
|  | FirstName | String | No | Member’s First Name |
|  | LastName | String | No | Member’s Last Name |
|  | DoB | Date | No | Member’s Date Of Birth |
|  | Deleted\_at | Timestamps |  | The time that account was deleted |
|  | Created\_at | Timestamps |  | The time that account was created |
|  | Gender | String | No | Member’s Gender |

Table ‑: Members table

### Medicinal\_plants\_history table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Allow Null** | **Description** |
|  | ID | int | No | Primary key of table |
|  | CommonName | String | No | Medicinal plant’s CommonName |
|  | OtherName | String | No | Medicinal plant’s Other Name |
|  | ScienceName | String | No | Medicinal plant’s Science Name |
|  | Description | String | No | Medicinal plant’s Characteristic |
|  | Location | String | No | Medicinal plant’s Location |
|  | Utility | String | No | Medicinal plant’s Utility |
|  | Author | String | No | Medicinal plant’s Author |
|  | ThumbnailUrl | Text | No | Link to thumbnail image |
|  | ImgUrl | Text | No | Links to Medicinal plant’s image |
|  | Deleted\_at | Timestamps |  | The time that log was deleted |
|  | Created\_at | Timestamps |  | The time that log was created |
|  | Type | String |  | Type of log (add or edit) |
|  | Status | String | No | Save type that is edited |
|  | PlantId | String | No | Medicinal plant’s ID (for type = edit) |

Table ‑: Medicinal\_plants\_history table

### Medicinal\_plants\_reviews table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Allow Null** | **Description** |
|  | ID | Int | No | Primary key of table |
|  | Reviewed | Int | No | Medicinal plant’s Reviewed from Member |
|  | Reviewer | String | No | Medicinal plant’s Reviewer |
|  | Comment | LongText |  | Medicinal plant’s Comment from Member |
|  | RatingPoint | Int |  | Medicinal plant’s Rating point from Member |
|  | Created\_at | Timestamps |  | The time that log was created |

Table ‑: Medicinal\_plants\_reviews table

### Medicinal\_plants\_reports table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Allow Null** | **Description** |
|  | ID | Int | No | Primary key of table |
|  | Reporter | String | No | Medicinal plant’s Reporter |
|  | Reported | Int | No | Medicinal plant’s Reported from Member |
|  | Reason | LongText | No | Medicinal plant’s Reason from Member |
|  | Created\_at | Timestamps |  | The time that log was created |

Table ‑: Medicinal\_plants\_reports table

### Remedies\_history table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Allow Null** | **Description** |
|  | ID | int | No | Primary key of table |
|  | Title | String | No | Remedy’s Title |
|  | RemedyId | Int | No | Remedy’s ID |
|  | Description | String | No | Remedy’s Description |
|  | Note | String | No | Remedy’s Note |
|  | Usage | String | No | Remedy’s Usage |
|  | Utility | String | No | Remedy’s Utility |
|  | Ingredient | String | No | Medicinal plants that is contained in this remedy |
|  | Author | String | No | Remedy’s Author |
|  | ThumbnailUrl | Text | No | Link to thumbnail image |
|  | ImgUrl | Text | No | Links to remedy’s image |
|  | Type | String |  | Type of log (add or edit) |
|  | Deleted\_at | Timestamps |  | The time that log was deleted |
|  | Created\_at | Timestamps |  | The time that log was created |

Table ‑: Remedies\_history table

### Remedies\_reviews table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Allow Null** | **Description** |
|  | ID | Int | No | Primary key of table |
|  | Reviewed | Int | No | Remedy’s Reviewed from Member |
|  | Reviewer | String | No | Remedy’s Reviewer |
|  | Comment | LongText |  | Remedy’s Comment from Member |
|  | RatingPoint | Int |  | Remedy’s Rating point from Member |
|  | Created\_at | Timestamps |  | The time that log was created |

Table ‑: Remedies\_reviews table

### Remedies\_reports table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Allow Null** | **Description** |
|  | ID | int | No | Primary key of table |
|  | Reporter | String | No | Remedy’s Reporter |
|  | Reported | Int | No | Remedy’s Reported from Member |
|  | Reason | LongText | No | Remedy’s Reason from Member |
|  | Created\_at | Timestamps |  | The time that log was created |

Table ‑: Remedies\_reports table

### Herbal\_medicine\_stores table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Allow Null** | **Description** |
|  | AccountName | String | No | Herbal medicine store’s Account Name |
|  | StoreName | String | No | Herbal medicine store’s Name |
|  | Address | String | No | Herbal medicine store’s Address |
|  | Phonenumber | String | No | Herbal medicine store’s Phone number |
|  | Representative | String | No | Herbal medicine store’s Representative |
|  | GalleryImage | String |  | Herbal medicine store’s Image |
|  | Deleted\_at | Timestamps |  | The time that Herbal medicine store was deleted |
|  | Created\_at | Timestamps |  | The time that Herbal medicine store was created |

Table ‑: Herbal\_medicine\_stores table

### Store\_prescriptions table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Field Name** | **Type** | **Allow Null** | **Description** |
| 1 | ID | int | No | Primary key of table |
| 2 | StoreCredential | String |  | Herbal medicine store’s Account |
| 3 | RemedyID | int |  | Remedy’s ID |
| 4 | RemedyTitle | String |  | Remedy’s Title |
| 5 | Deleted\_at | Timestamps |  | The time that record was deleted |
| 6 | Created\_at | Timestamps |  | The time that record was deleted |
| 7 | Updated\_at | Timestamps |  | The time that record was deleted |
| 8 | storeName | String |  | Herbal medicine store’s Account |

Table ‑: Store\_prescriptions table