**Architecture Driver Specification**

Admission system

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# **Revision**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Phiên bản** | **Ngày** | **Tác giả** | **Nội dung** |
| 1 | 0.1 | 05/12/2013 | Huynh Trong Khang | Create Architecture driver specification  Introduction, Project Overview, Architecture Overview, Specifications Traceability Matrix. |
| 2 | 0.2 | 08/12/2013 | DeadLine Team | Create Entities, Usecase-model and description, Quality attribute |
| 3 | 0.3 | 15/12/2013 | Khau Thanh Dao  Ngo Quang Huy  Nguyen Phan Xuan Huy  Huynh Trong Khang | Update Entity, use case, quality attribute for  “Danh mục” & “Hỏi đáp” |
| 4 | 0.4 | 17/12/2013 | Le Ngoc Chau  Ta Ngoc Thien Phu  Huynh Trong Khang | Update Use case diagram + description for “Soạn tin” module.  Synthesis parts are divided  Entiy, User case, Quality  Update template table |
| 5 | 0.5 | 8/1/2014 | Le Ngoc Chau | Update entities and usecases  Update list quality attributes |
| 6 | 0.6 | 28/3/2014 | Ngo Quang Huy | Update usecase description |

Table 1: Revision history

# **Introduction**

## Purpose

This document is used to analyze the scenario from the stakeholders and will continue to be recorded, refine during project development.

Acting as the main repository of project requirements.

## Reader

The reader of this document will include Deadline teams, clients and stakeholders in the project.

## The acronym

|  |  |  |
| --- | --- | --- |
| **No.** | **Glossary** | **Description** |
| 1 | E<XX> | Entity ID includes:  E: Entity.  <XX>: Number of Entity |
| 2 | UC.<XX> | High level usecase ID includes:  UC: Use Case.  <XX>: Number of high level usecase |
| 3 | UC.<XX>.<YY> | Use case ID detail includes:  UC: Use Case.  <XX>: Number of high level usecase  <YY>: Number of usecase detail |
| 4 | QAU | Quality Attribute Usability. |
| 5 | QAS | Quality Attribute Security. |
| 6 | QAP | Quality Attribute Performance. |
| 7 | QAA | Quality Attribute Availability. |
| 8 | QAM | Quality Attribute Modifiability. |
| 9 | QAL | Quality Attribute Scalability |
| 10 | BC.<XX> | Business constraint ID includes:  BC: Business Constraint.  <XX>: Number of business constraint |
| 11 | TC.<XX> | Technical constraint ID includes:  TC: Technical Constraint.  <XX>: Number of technical constraint |
| 12 | BR.<XX>.<YY> | Business rule ID includes:  BR: Business Rule.  <XX>: Number of high level usecase.  <YY>: Number of business rule. |

Table 2: The acronym

## Refer

|  |  |  |
| --- | --- | --- |
| **No** | **Document** | **Description** |
| 1 | Architecting.Software.Intensive.Systems.A.Practitioners.Guide.Nov.2008. | Used to make document |
| 2 | Documenting Software Architectures - View and Beyond, Paul Clements, 2010 (Clements 10) | Apply for describing Views |
| 3 | Software Architecture in Practice | Apply for describing Views |
| 4 | AS\_RE\_OperationRequirement | Used to analyze customer requirements |

Table 3: Refer

# **Project overview**

Admissions System (AD) is an application that integrate tools (Article, Catalog, questions and answers) independent, it's supported base on web and android platform aimed at helping users easily perform a variety of work related problems admission. The system consists of three main tools:

* Article system
* Catalog management system
* Dictionary management system and Dictionary display system

# **Architect overview**

Architectural drivers are presented in this document include:

* Functional Requirements: descript requirements is shown on use cases and requirements are defined in the operation document.
* Non-functional Requirements: are requirements that support the system and are shown on the quality attributes scenarios, identified in the operation document.
* Business constraints are identified in the operation document.
* Technical constraints: are identified in the operation document.

# **Functional requirements**

## Requirement description

Refer to Operation document

## Entities list

|  |  |
| --- | --- |
| **ID** | **Entity** |
| [E01](#_Tổng_biên_tập) | Editor-in-chief |
| [E02](#_Biên_tập) | Editor |
| [E03](#_Phóng_viên) | Reporter |
| [E04](#_Quản_trị_danh) | Catalog manager |
| [E05](#_Bộ_phận_trả) | Answer Department |
| [E06](#_Người_dùng) | User |
| [E07](#_Công_cụ_soạn) | Article system |
| [E08](#_Công_cụ_hiển) | Display article-inter |
| [E09](#_Công_cụ_hiển_1) | Display article-intra |
| [E10](#_Công_cụ_quản) | Dictionary management system |
| [E11](#_Công_cụ_hiển_2) | Dictionary display system |
| [E12](#_Công_cụ_quản_1) | Dictionary management system (andrioid app) |
| [E13](#_Công_cụ_hiển_3) | Dictionary display system (andrioid app) |
| [E14](#_Mail_server) | Mail Server |
| [E15](#_Database_intranet) | Database intranet |
| [E16](#_Database_internet) | Database internet |
| [E17](#_Quản_trị_người) | User management |
| [E18](#_Tính_năng_quản) | User management module |

Table 4: Entity list

### Entities description detail

#### Editor-in-chief

|  |  |  |
| --- | --- | --- |
| **Entity Name: Editor-in-chief** | | **ID:E01** |
| **Description:**  Editor-in-chief is person who use Article system, highest role, drafting news and is responsible for the approval and drop- article to internet or intranet. Besides Editor-in-chief can choose a person who can represent do their work in one specific time period through authorize to other. | | |
| **Provides assumptions:** | **Requires assumptions:** | |
| Editor-in-chief provides for Article system content of article in text format, attachments in format of img, video, .doc, .xls, .pdf, .ppt and the other articles that relate.  *(\*Related article: is article uploaded and its content relate with content of article that is creating)* | Editor-in-chief requires Article system provide interface to create the article in text format, attachments in format of img, video, .doc, xls, .pdf, .ppt and the other article that relate. | |
| Editor-in-chief provides for Article system name of related article | Editor-in-chief requires Article system provide interface to edit information of article. | |
| Editor-in-chief provides for Article system information of article that need to search, include:   * Title in text format * Content summary in text format * Main content in text format * Creater by * Create date * Approve by * Approve date * Delete by * Delete date * Upload by * Upload date * Drop by * Drop date | Editor-in-chief requires Article system provide interface to search, include:   * Title in text format * Content summary in text format * Main content in text format * Creater by * Create date * Approve by * Approve date * Delete by * Delete date * Upload by * Upload date * Drop by * Drop date. | |
| Editor-in-chief provides for Article system information of related article that need to search, include:   * Title in text format * Content summary in text format * Main content in text format * Create by * Create date * Approved by * Approved date * Upload by * Upload date | Editor-in-chief requires Article system provide interface to search related article, include:   * Title in text format * Content summary in text format * Main content in text format * Create by * Create date * Approve by * Approve date * Upload by * Upload date | |
| Editor-in-chief provides for Article system article’s name that need to view detail, include:   * Article is created * Article waiting for approve * Article is approved * Article is deleted * Article is upload * Article is droped * Article is returned | Editor-in-chief requires Article system provide interface to view detail of article in lists, include:   * Article is created * Article waiting for approve * Article is approved * Article is deleted * Article is upload * Article is droped * Article is returned | |
| Editor-in-chief provides for Article system article’s name that need to review. | Editor-in-chief requires Article system provide interface to review article. | |
| Editor-in-chief provides for Article system article that want to approve. | Editor-in-chief requires Article system provide the ability to browse the article was sent from the lower level. | |
| Editor-in-chief provides for Article system article that need to return and name of person is returned. | Editor-in-chief requires Article system provide the ability to return article for person who sent this article or person who editor-in-chief is chosen. | |
| Editor-in-chief provides for Article system article that want to upload in internet or intranet. | Editor-in-chief requires Article system provide the ability upload article in internet or intranet. | |
| Editor-in-chief provides for Article system article that want to drop. | Editor-in-chief requires Article system provide the ability to drop article. | |
| Editor-in-chief provides for Article system article that want to comment and formulation | Editor-in-chief requires Article system provide interface to comment for article. | |
| Editor-in-chief provides for Article system person’s name who is authorized and time. | Editor-in-chief requires Article system provide the ability to authorize all author of editor-in-chief. | |
| Editor-in-chief provides for Article system name of person who is deleted the authorization | Editor-in-chief requires Article system provide the ability to delete the authorization for person who receive the authorization before. | |
| Editor-in-chief provides for Article system article that want to delete. | Editor-in-chief requires Article system provide the ability to delete article. | |
| Editor-in-chief provides for Article system news that want to deleted permanently. | Editor-in-chief requires Article system provide the ability to delete news permanently. | |
| Editor-in-chief provides for Article system the sort order of messages to be displayed on the internet or intranet. | Editor-in-chief requires Article system provide interface to sort article that display on the internet or intranet. | |
| Editor-in-chief provides for Article system index that want to create. | Editor-in-chief requires Article system provide interface to create index for news | |
| **Identified use cases:** | | |
| * Create article | UC01.01 | |
| * Edit article | UC01.02 | |
| * Search articles | UC01.03 | |
| * Search related articles | UC01.04 | |
| * View article | UC01.05 | |
| * Preview articles | UC01.06 | |
| * Approve articles | UC01.08 | |
| * Return articles | UC01.09 | |
| * Upload articles | UC01.10.01 | |
| * Drop articles | UC01.11.01 | |
| * Authorize | UC01.13.01 | |
| * Delete authorization | UC01.13.02 | |
| * Delete article | UC01.14 | |
| * Deleted article permanently | UC01.15 | |
| * Sort articles | UC01.16 | |
| * Create index | UC01.23 | |
| * Comments | UC01.17 | |

Table 5: Descrip entity Editor-in-chief

#### Editor

|  |  |  |
| --- | --- | --- |
| **Entity Name: Editor** | | **ID:E02** |
| **Description:**  Editor is a person who used Article system, may edit article, and is responsible for confirm the article that is sent by reporter and return article to reporter if it’s wrong, and send to higher level when the article is approved, beside they can upload the article on internet or intranet. | | |
| **Provides assumptions:** | **Requires assumptions:** | |
| Editor provides cho Article system content of article in text format and attachment in format of img, video, .doc, .xls, .pdf, .ppt and related article  *(\*Related article: is article uploaded and its content relate with content of article that is creating)* | Editor requires Article system provide interface to create the article in text format, attachments in format of img, video, .doc, xls, .pdf, .ppt and the other article that relate.. | |
| Editor provides cho Article system name of article that want to edit | Editor requires Article system provide interface to edit article | |
| Editor provides cho Article system information of article that need to search, include:   * Title in text format * Content summary in text format * Main content in text format * Create by * Create date * Approved by * Approved date * Delete by * Delete date * Upload by * Upload date * Drop by * Drop date. | Editor requires Article system provide interface to search, include:   * Title in text format * Content summary in text format * Main content in text format * Create by * Create date * Approved by * Approved date * Delete by * Delete date * Upload by * Upload date * Drop by * Drop date. | |
| Editor provides cho Article system system information of related article that need to search, include:   * Title in text format * Content summary in text format * Main content in text format * Create by * Create date * Approved by * Approved date * Upload by * Upload date | Editor requires Article system provide interface to search related article, include:   * Title in text format * Content summary in text format * Main content in text format * Create by * Create date * Approved by * Approved date * Upload by * Upload date | |
| Editor provides cho Article system article’s name that need to view detail, include:   * Article is created * Article waiting for approve * Article is approved * Article is deleted * Article is upload * Article is droped * Article is returned | Editor requires Article system provide interface to view detail of article in lists, include:   * Article is created * Article waiting for approve * Article is approved * Article is deleted * Article is upload * Article is droped * Article is returned | |
| Editor provides cho Article system article’s name that need to review. | Editor requires Article system provide interface to review article. | |
| Editor provides cho Article system articles that want to transfer to other. | Editor requires Article system provide the ability to tranfer article to the other | |
| Editor provides cho Article system article that want to approve. | Editor requires Article system provide the ability to approve articles from lower level. | |
| Editor provides cho Article system article that need to return and name of person is returned. | Editor requires Article system provide the ability to return article for person who sent this article or person who editor-in-chief is chosen | |
| Editor provides cho Article system article HTML that need to upload on internet or intranet. | Editor requires Article system provide the ability to upload article HTML on internet or intranet. | |
| Editor provides cho Article system article HTML that need to drop from internet or intranet. | Editor requires Article system provide the ability to drop article HTML from internet or intranet | |
| Editor provides cho Article system the article that want to get from list of article that waiting for approve | Editor requires Article system provide the ability to get article from list of article that waiting for approve to edit | |
| Editor provides cho Article system article that want to comment and formulation | Editor requires Article system provide interface to comment for article. | |
| Editor provides cho Article system article that want to delete. | Editor requires Article system provide the ability to delete article. | |
| Editor provides cho Article system news that want to deleted permanently. | Editor requires Article system provide the ability to delete news permanently. | |
| **Identified use cases:** | | |
| * Create article | UC01.01 | |
| * Edit article | UC01.02 | |
| * Search articles | UC01.03 | |
| * Search related articles | UC01.04 | |
| * View article | UC01.05 | |
| * Preview articles | UC01.06 | |
| * Transfer articles | UC01.07 | |
| * Approve articles | UC01.08 | |
| * Return article | UC01.09 | |
| * Upload article HTML | UC01.10.02 | |
| * Drop article HTML | UC01.11.02 | |
| * Get articles | UC01.12 | |
| * Delete articles | UC01.14 | |
| * Deleted article permanently | UC01.15 | |
| * Comment | UC01.17 | |

Table 6:Descrip entity Editor

#### Reporter

|  |  |  |
| --- | --- | --- |
| **Entity Name: Reporter** | | **ID:E03** |
| **Description:**  Reporter is person who used Article system may edit article, send article to higher level or the other to approve, beside they can upload the article on internet or intranet. | | |
| **Provides assumptions:** | **Requires assumptions:** | |
| Reporter provides cho Article system content of article in text format and attachment in format of img, video, .doc, .xls, .pdf, .ppt and related article.  *(\*Related article: is article uploaded and its content relate with content of article that is creating)* | Reporter requires Article system provide interface to create the article in text format, attachments in format of img, video, .doc, xls, .pdf, .ppt and the other article that relate.. | |
| Reporter provides cho Article system name of article that want to edit | Reporter requires Article system provide interface to edit article | |
| Reporter provides cho Article system information of article that need to search, include:   * Title in text format * Content summary in text format * Main content in text format * Create by * Create date * Approved by * Approved date * Delete by * Delete date * Upload by * Upload date * Drop by * Drop date. | Reporter requires Article system provide interface to search, include:   * Title in text format * Content summary in text format * Main content in text format * Create by * Create date * Approved by * Approved date * Delete by * Delete date * Upload by * Upload date * Drop by * Drop date. | |
| Reporter provides cho Article system system information of related article that need to search, include:   * Title in text format * Content summary in text format * Main content in text format * Create by * Create date * Approved by * Approved date * Upload by * Upload date | Reporter requires Article system provide giao diện để Search related articles với các thông tin có liên quan đến bản tin bao gồm:   * Title in text format * Content summary in text format * Main content in text format * Create by * Create date * Approved by * Approved date * Upload by * Upload date | |
| Reporter provides cho Article system article’s name that need to view detail, include:   * Article is created * Article waiting for approve * Article is approved * Article is deleted * Article is upload * Article is droped * Article is returned | Reporter requires Article system provide interface to view detail of article in lists, include:   * Article is created * Article waiting for approve * Article is approved * Article is deleted * Article is upload * Article is droped * Article is returned | |
| Reporter provides cho Article system article’s name that need to review. | Reporter requires Article system provide interface to review article. | |
| Reporter provides cho Article system articles that want to transfer to other. | Reporter requires Article system provide the ability to transfer article to other. | |
| Reporter provides cho Article system article HTML that need to upload on internet or intranet. | Reporter requires Article system provide the ability to upload article HTML on internet or intranet. | |
| Reporter provides cho Article system the article that want to get from list of article that waiting for approve | Reporter requires Article system provide the ability to get article from list of article that waiting for approve to edit | |
| Reporter provides cho Article system article HTML that need to drop from internet or intranet. | Reporter requires Article system provide the ability to drop article HTML from internet or intranet | |
| Reporter provides cho Article system article that want to comment and formulation | Reporter requires Article system provide interface to comment for article. | |
| Reporter provides cho Article system article that want to delete. | Reporter requires Article system provide the ability to delete article. | |
| Reporter provides cho Article system news that want to deleted permanently. | Reporter requires Article system provide the ability to delete news permanently. | |
| **Identified use cases:** | | |
| * Create article | UC01.01 | |
| * Edit article | UC01.02 | |
| * Search articles | UC01.03 | |
| * Search related articles | UC01.04 | |
| * View article | UC01.05 | |
| * Preview articles | UC01.06 | |
| * Transfer articles | UC01.07 | |
| * Upload article HTML | UC01.10.02 | |
| * Drop article HTML | UC01.11.02 | |
| * Get articles | UC01.12 | |
| * Delete articles | UC01.14 | |
| * Deleted article permanently | UC01.15 | |
| * Comment | UC01.17 | |

Table 7:Descrip entity Reporter

#### Catalog manager

|  |  |  |
| --- | --- | --- |
| **Entity Name:** Catalog manager | | **ID:E04** |
| **Description:**  Catalog manager is person who used Article system is responsible for create catalog and sort them when displey on internet or intranet. | | |
| **Provides assumptions:** | **Requires assumptions:** | |
|  | Catalog manager requires Article system provide interface to view list of catalog. | |
| Catalog manager provides cho Article system name of catalog and link of them. | Catalog manager requires Article system provide interface to create new catalog through catalog’s information such as: catalog’s name, catalog’s link. | |
| Catalog manager provides cho Article system catalog’s information include catalog’s name, catalog’s link that need to edit | Catalog manager requires Article system provide the ability to edit catalog’s information include catalog’s name, catalog’s link. | |
| Catalog manager provides cho Article system catalog’s name that want to delete. | Catalog manager requires Article system provides the ability to delete catalog. | |
| Catalog manager provides cho Article system the order of the list displayed on the internet or intranet. | Catalog manager requires Article system provide the ability to sort list catalog that displayed on the internet or intranet. | |
| **Identified use cases:** | | |
| * View catalog | UC01.18 | |
| * Create catalog | UC01.19 | |
| * Edit catalog | UC01.20 | |
| * Delete catalog | UC01.21 | |
| * Sort catalog | UC01.22 | |

Table 8:Descrip entity Catalog manager

#### Answer Department

|  |  |  |
| --- | --- | --- |
| **Entity Name: Answer Department** | | **ID: E05** |
| **Description:**  Answer Department is person who used Dictionary management system and Dictionary management system (andrioid app), Answer Department has the ability to answer the questions of users through Dictionary and Dictionary Management System Management System (andrioid app). | | |
| **Provides assumptions:** | **Requires assumptions:** | |
| Answer Department provides cho Dictionary management system information to search question include question’s content or answer’s content | Answer Department requires Dictionary management system provide interface to display list of question and answer in dictionary and the ability to search question or answer.. | |
| Answer Department provides cho Dictionary management system question’s content that want to view detail | Answer Department requires Dictionary management system provide interface to view detail of question and answer. | |
| Answer Department provides cho Dictionary management system answer’s content that want to sent for user. | Answer Department requires Dictionary management system provide interface to create answer to sent to users. | |
| Answer Department provides cho Dictionary management system content of question and answer that want to delete | Answer Department requires Dictionary management system provide the ability to delete question’s content and answer’s content that Answer Department wants. | |
| Answer Department provides cho Dictionary management system question’s content and answer’s content that need to remove to dictionary. | Answer Department requires Dictionary management system provide the ability to remove question’s content and answer’s content to dictionary. | |
| Answer Department provides cho Dictionary management system question’s content and answer’s content that want to upload on the internet. | Answer Department requires Dictionary management system provide the ability to upload question’s content and answer’s content on the internet. | |
| Answer Department provides cho Dictionary management system question’s content and answer’s content that want to drop from the internet. | Answer Department requires Dictionary management system provide the ability to drop question and answer from the internet. | |
| Answer Department provides cho Dictionary management system question’s content and answer’s content that want to restore after delete. | Answer Department requires Dictionary management system provide the ability to restore question’s content and answer’s content after delete. | |
| Answer Department provides cho Dictionary management system question’s content and answer’s content that want to edit. | Answer Department requires Dictionary management system provide the ability to edit question’s content and answer’s content. | |
| Answer Department provides cho Dictionary management system questions’s content and answer content that Answer Department want to create. | Answer department requires Dictionary management system provides the ability to create question. | |
| Answer Department provides cho Dictionary management system trên android app information to search question include question’s content or answer’s content | Answer Department requires Dictionary management system (android app) provide interface to display list of question in dictionary and the ability to search question. | |
| Answer Department provides cho Dictionary management system (andrioid app) question that want to view detail. | Answer Department requires Dictionary management system (andrioid app) provide interface to view detail of question. | |
| Answer Department provides cho Dictionary management system (andrioid app) answer’s content that want to sent for user.. | Answer Department requires Dictionary management system (andrioid app) provide interface to create answer to send to users. | |
| Answer Department provides cho Dictionary management system (andrioid app) question’s content and answer’s content that want to insert to dictionary. | Answer Department requires Dictionary management system (andrioid app) provide the ability to insert question’s content into dictionary | |
| Bộ phần trả lời provides cho Dictionary management system (andrioid app) question’s content that want to delete. | Answer Department requires Dictionary management system (andrioid app) provide the ability to delete question. | |
| Answer Department provides cho Dictionary management system (andrioid app) question’s content and answer’s content that want to restore. | Answer Department requires Dictionary management system (andrioid app) provide the ability to restore question and answer. | |
| Answer Department provides cho Dictionary management system (andrioid app) question’s content and answer’s content that want to upload on the internet. | Answer Department requires Dictionary management system (andrioid app) provide the ability to upload question’s content and answer’s content on the internet. | |
| Answer Department provides cho Dictionary management system (andrioid app) question’s content and answer’s content that want to drop from the internet. | Answer Department requires Dictionary management system (andrioid app) provide the abiliti to drop question from the internet. | |
| Answer Department provides cho Dictionary management system (andrioid app) question’s content and answer’s content that want to create. | Answer Department requires Dictionary management system (andrioid app) provide the ability to create question that Answer Department provides. | |
| **Identified use cases:** | | |
| * Search | UC02.01 | |
| * View question detail | UC02.02 | |
| * Send Mail | UC02.03 | |
| * Delete question | UC02.04.01 | |
| * Delete more question | UC02.04.02 | |
| * Restore question | UC02.05.01 | |
| * Restore more question | UC02.05.02 | |
| * Insert question into dict | UC.02.06 | |
| * Update question | UC02.07 | |
| * Upload-dict | UC02.08.01 | |
| * Upload-dict more | UC02.08.02 | |
| * Drop-dict | UC02.09.01 | |
| * Drop-dict more | UC02.09.02 | |
| * Create index | UC02.10 | |
| * Create question | UC02.12 | |
| * User config | UC02.13 | |
| * Mail config | UC02.14 | |
| * System config | UC02.15 | |
| * Help | UC02.16 | |
| * Thay đổi phân trang | UC02.17 | |
| * Search trên android app | UC04.01 | |
| * View question detail trên android app | UC04.02 | |
| * Send Mail trên android app | UC04.03 | |
| * Delete question trên android app | UC04.04 | |
| * Restore question trên android app | UC04.05 | |
| * Insert question into dict trên android app | UC04.06 | |
| * Update question trên android app | UC04.07 | |
| * Đăng câu hỏi trên internet trên android app | UC04.08 | |
| * Drop-dict trên android app | UC04.09 | |

Table 9:Descrip entity Answer Department

#### User

|  |  |  |
| --- | --- | --- |
| **Entity Name: User** | | **ID: E06** |
| **Description:**  User là người quan tâm đến thông tin tuyển sinh, họ có quyền đặt câu hỏi thông qua Dictionary display system and Dictionary display system (andrioid app).  Users is a p erson who will interested adninsion information, they can send questions by Dictionary d isplay ssystem and Dictionary s ysetm (android) | | |
| **Provides assumptions:** | **Requires assumptions:** | |
| Users provides keyword for Dictionary display system | User requires Dictionary display system provide question list interface and the ability to search data | |
| Users provides detail question for Dictionary display system | User requires Dictionary display system provide question detail interface | |
| User provides content that will send to answer department, content is sent by text format, include: user name, user email, content for Dictionary display system | User requires Dictionary display system provide create question interface | |
| User provides keyword for Dictionary display system (android app) | User requires Dictionary display system (android app) provide question list interface and the ability to search data. | |
| User provides detail question for Dictionary display system (andrioid app) | User requires Dictionary display system (andrioid app) provide question detail interface | |
| User provides content that will send to answer department, content is sent by text format, include: user name, user email, content for Dictionary display system (andrioid app) | User requires Dictionary display system (andrioid app) provide create question interface | |
|  | User requires Display article-inter provide article list that is upload on the internet | |
| User provides detail article for Display article-inter | User requires Display article-inter provide related article detail interface | |
| User provides name of related article Display article-inter | User requires Display article-inter provide article detail interface | |
|  | User requires Display article-intra provide article list that is upload on the intranet | |
| User provides name of article that user know detail information for Display article-intra | User requires Display article-intra provide article detail interface | |
| User provides name of related article Display article-intra | User requires Display article-intra provide article list that is upload on the intranet | |
| **identified use cases:** | | |
| * Search câu hỏi | UC03.01 | |
| * Xem chi tiết câu hỏi | UC03.02 | |
| * Create question | UC03.03 | |
| * Thay đổi phân trang | UC03.04 | |
| * Search câu hỏi trên android app | UC05.01 | |
| * Xem chi tiết câu hỏi trên android app | UC05.02 | |
| * Create question trên android app | UC05.03 | |

Table 10:Descrip entity User

#### Article system

|  |  |  |
| --- | --- | --- |
| **Entity Name:** Article system | | **ID: E07** |
| **Description:**  Article system supports interface that will help user create article, catalog and upload article on the internet/intranet or drop article from internet/intranet | | |
| **Provides assumptions:** | **Requires assumptions:** | |
| Article system provides for editor-in-chief, editor, reporter interface to create the article in text format, attachments in format of img, video, .doc, xls, .pdf, .ppt and the other article that relate. | Article system requires editor-in-chief, editor and reporter provide content of article in text format and attachment in format of img, video, .doc, .xls, .pdf, .ppt and related article.  *(\*Related article: is article uploaded and its content relate with content of article that is creating)* | |
| Article system provides Edit interface of article for editor-in-chief, editor and reporter | Article system requires editor-in-chief, editor and reporter provide name of article that want to edit. | |
| Article system provides interface which user can search data for editor-in-chief, editor and reporter   * Title in text format * Content summary in text format * Main content in text format * Create by * Create date * Approved by * Approved date * Delete by * Delete date * Upload by * Upload date * Drop by * Drop date. | Article system requires editor-in-chief, editor and reporter provide article information include:   * Title in text format * Content summary in text format * Main content in text format * Create by * Create date * Approved by * Approved date * Delete by * Delete date * Upload by * Upload date * Drop by * Drop date. | |
| Article system provides cho editor-in-chief, editor and reporter interface which user can search content of related article   * Title in text format * Content summary in text format * Main content in text format * Create by * Create date * Approved by * Approved date * Delete by * Delete date * Upload by * Upload date | Article system requires editor-in-chief, editor and reporter provide related article information include   * Title in text format * Content summary in text format * Main content in text format * Create by * Create date * Approved by * Approved date * Delete by * Delete date * Upload by * Upload date | |
| Article system provides for editor-in-chief, editor, reporter interface to view detail of article in lists, include:   * Article is created * Article waiting for approve * Article is approved * Article is deleted * Article is upload * Article is droped * Article is returned | Article system requires editor-in-chief, editor and reporter provide article’s name that need to view detail, include:   * Article is created * Article waiting for approve * Article is approved * Article is deleted * Article is upload * Article is droped * Article is returned | |
| Article system provides for editor-in-chief, editor and reporter interface to review article. | Article system requires editor-in-chief, editor and reporter provide article’s name that need to review. | |
| Article system provides for editor and reporter the ability to transfer articles for other people | Article system requires editor and reporter provide article content that will transfer to other | |
| Article system provides for editor-in-chief and editor the ability to approve articles from lower level. | Article system requires editor-in-chief and editor provide article that want to approve. | |
| Article system provides for editor-in-chief and editor the ability to return article | Article system requires editor-in-chief and editor provide article content that will return to lower level | |
| Article system provides cho editor-in-chief the ability to upload article on the internet/intranet | Article system requires editor-in-chief provide article that user want to upload to internet/intranet | |
| Article system provides for editor and reporter the ability to upload article HTML on the internet/intranet | Article system requires editor and reporter provide article HTML that need to upload on internet or intranet. | |
| Article system provides for editor-in-chief the ability to drop article | Article system requires editor-in-chief provide article that user want to drop from internet/intranet | |
| Article system provides cho editor and reporter the ability to drop article HTML | Article system requires editor and reporter provide article HTML that user want to drop from internet/intranet | |
| Article system provides cho editor and reporter the ability to get article from artile wait to approve list | Article system requires editor and reporter provide name of article that user want get it in article wait to approve list | |
| Article system provides for editor-in-chief, editor and reporter interface to comment for article.. | Article system requires editor-in-chief, editor and reporter provide article that want to comment and formulation | |
| Article system provides cho editor-in-chief the ability to authorize in period of time | Article system requires editor-in-chief provide name of person who is authorized in period of time | |
| Article system provides cho editor-in-chief the ability to delete authorization | Article system requires editor-in-chief provide name of person who is deleted authorization | |
| Article system provides for editor-in-chief, editor and reporter the ability to delete article. | Article system requires editor-in-chief, editor and reporter provide article that want to delete. | |
| Article system provides for editor-in-chief, editor and reporter the ability to delete news permanently. | Article system requires editor-in-chief, editor and reporter provide news that want to deleted permanently. | |
| Article system provides for editor-in-chief  sort article list interface on the internet/intranet | Article system requires editor-in-chief provide position of article that displayed on the internet/intranet | |
| Article system provides for Catalog manager catalog list interface |  | |
| Article system provides create catalog interface for Catalog manager | Article system requires Catalog manager provide new name and link of catalog | |
| Article system provides edit catalog interface include name and link of catalog for Catalog manager | Article system requires Catalog manager provide name and link of catalog that user want to edit | |
| Article system provides for Catalog manager the ability to detele catalog | Article system requires Catalog manager provide name and link of catalog that user want to delete | |
| Article system provides for Catalog manager internet hoặc intranet the ability to sort catalog on internet/intranet | Article system requires Catalog manager provide position of article that displayed on the internet/intranet | |
| Article system provides for database intranet article content, catalog content and position of catalog on intranet | Article system requires database intranet provide repository that contrain article content and position content on intranet | |
| Article system provides cho Display article-inter article content, catalog content and position of catalog on internet | Article system requires Display article-inter provide web service repository that contrain article content and position content on internet | |
| **identified use cases:** | | |
|  |  | |

Table 11: Descrip entity Article system

#### Display article-inter

|  |  |  |
| --- | --- | --- |
| **Entity Name: Display article-inter** | | **ID: E08** |
| **Description:**  Display article-inter supports to display article and catalog on the internet base on require and position of editor editor-in-chief, editor, reporter and Catalog manager | | |
| **Provides assumptions:** | **Requires assumptions:** | |
| Display article-inter provides for Article system web service receive article content and catalog that is upload on the internet | Display article-inter requires Article system provide articles, catalogs and position of them on the internet | |
| Display article-inter provides for database internet article content, catalog content and position of them on the internet | Display article-inter requires database internet provide repository articles, catalogs and position of them on the internet | |
| Display article-inter provides for user internet interface of article list that is upload on the internet |  | |
| Display article-inter provides for user interface of article detail that is upload on the internet | Display article-inter requires user provide name of article on the internet | |
| Display article-inter provides cho user interface of related article detail | Display article-inter requires user provide name of related article on the internet | |
| **identified use cases:** | | |
|  |  | |

Table 12: Descrip entity Display article-inter

#### Display article-intra

|  |  |  |
| --- | --- | --- |
| **Entity Name:** Display article-intra | | **ID: E09** |
| **Description:**  Display article-intra supports for displaying articles and catalog on the intranet base on requires of the editor-in-chief, editor, reporter and Catalog Manager | | |
| **Provides assumptions:** | **Requires assumptions:** | |
| Display article-intra provides for database intranet interface to receive article content and catalog that is upload on the intranet | Display article-intra requires database intranet provide content of articles, catalogs and position of them on the intranet | |
| Display article-intra provides for user intranet article list interface on intranet |  | |
| Display article-intra provides for user detail article interface that is upload on the internet | Display article-intra requires of user provide name of article on the intranet | |
| Display article-intra provides for user detail related article interface | Display article-intra requires user provide name of related article on the intranet | |
| **identified use cases:** | | |
|  |  | |

Table 13: Descrip entity Display article-intra

#### Dictionary management system

|  |  |  |
| --- | --- | --- |
| **Entity Name:** Dictionary management system | | **ID: E10** |
| **Description:**  Dictionary management system supports functions that allow answer department to manage questions, answer and allow answer department can insert question to dictionary and delete question to dictionary | | |
| **Provides assumptions:** | **Requires assumptions:** | |
| Dictionary management system provides for answer department interface that show question list in dictionary and the ability to search question | Dictionary management system requires answer department provide question’s information that need to search in text format. | |
| Dictionary management system provides for answer department the ability to view detail question and detail answer in dictionary | Dictionary management system requires answer department provide question or answer in dictionary. | |
| Dictionary management system provides for answer department interface that user use to answer the question by text format | Dictionary management system requires answer department provide answers content in text format | |
| Dictionary management system provides for answer department the ability to insert question to dictionary | Dictionary management system requires answer department provide question’s content and answer’s content that want to insert int dictionary. | |
| Dictionary management system provides for answer department the ability to upload question on the internet | Dictionary management system requires answer department provide question’s content and answer’s content in dictionary that want to upload on the internet. | |
| Dictionary management system provides for answer department the ability to drop question from internet | Dictionary management system requires answer department provide question’s content and answer’s content in dictionary that want to drop from internet. | |
| Dictionary management system provides for answer department the ability to edit question content and answer content | Dictionary management system requires answer department provide question’s content and answer’s content that want to edit | |
| Dictionary management system provides for answer department the ability to delete question | Dictionary management system requires answer department provide question’s content and answer’s content that want to delete | |
| Dictionary management system provides for answer department the ability to restore question. | Dictionary management system requires answer department provide question’s content and answer’s content that want to restore. | |
| Dictionary management system provides for answer department the ability create question to insert to dictionary | Dictionary management system requires answer department provide new question’s content and answer’s content | |
| Dictionary management system provides for answer department the ability to config, mail configurate system and setting users | Dictionary management system requires answer department provide config’s information | |
| Dictionary management system provides for mail server mail of user, mail of answer department and question content | Dictionary management system requires mail server provide email’s status | |
| Dictionary management system provides for Dictionary management system (andrioid app) web service to support get question list from dictionary | Dictionary management system requires Dictionary management system (andrioid app) provide question list in dictionary interface | |
| Dictionary management system provides for Dictionary management system (andrioid app) web service to support get question that user want search in dictionary | Dictionary management system requires Dictionary management system (andrioid app) provide question’s content that want to search | |
| Dictionary management system provides for Dictionary management system (andrioid app) web service to receive question content and answer content that will insert to dictionary | Dictionary management system requires Dictionary management system (andrioid app) provide question’s content and answer’s content that want to insert into dictionary. | |
| Dictionary management system provides for Dictionary management system (andrioid app) web service to receive question content and answer content that need to upload to internet | Dictionary management system requires Dictionary management system (andrioid app) provide question’s content and answer’s content that want to upload on the internet | |
| Dictionary management system provides for Dictionary management system (andrioid app) web service to receive question content and answer content that need to edit | Dictionary management system requires Dictionary management system (andrioid app) provide question content and answer content that need edit | |
| Dictionary management system provides for Dictionary management system (andrioid app) web service to receive answer content that will send to user | Dictionary management system requires Dictionary management system (andrioid app) provide answer content that will send to user | |
| Dictionary management system provides cho Dictionary management system (andrioid app) web service to receive question that need to delete | Dictionary management system requires Dictionary management system (andrioid app) provide question that need to delete | |
| Dictionary management system provides cho Dictionary management system (andrioid app) web service to receive question content that need to restore | Dictionary management system requires Dictionary management system (andrioid app) provide question content that need to restore. | |
| Dictionary management system provides cho Dictionary management system (andrioid app) web service to receive question content that need to create | Dictionary management system requires Dictionary management system (andrioid app) provide question content that need to create | |
| Dictionary management system provides cho Dictionary management system (andrioid app) web service to receive question content and answer content that will drop from internet | Dictionary management system requires Dictionary management system (andrioid app) provide question content and answer content that will drop from internet | |
| Dictionary management system provides cho database internet to receive question and answer content in dictionary | Dictionary management system requires database internet provide repository question and answer content in dictionary | |
| Dictionary management system provides cho Dictionary management system (andrioid app) web service to receive question and answer content that need to delete | Dictionary management system requires Dictionary management system (andrioid app) provide question and answer content that need to delete | |
| Dictionary management system provides cho Dictionary management system (andrioid app) web service to receive question and answer content that need to restore | Dictionary management system requires Dictionary management system (andrioid app) provide question and answer content that need to restore | |
| **identified use cases:** | | |
|  |  | |

Table 14:Descrip entity Dictionary management system

#### Dictionary display system

|  |  |  |
| --- | --- | --- |
| **Entity Name:** Dictionary display system | | **ID: E11** |
| **Description:**  Dictionary display system support for user to view the content of questions and answers already stored in the dictionary. Besides support for the user to search for pre-existing questions in the dictionary and send the question to answer department if the did not find an questions similar questions seeking. | | |
| **Provides assumptions:** | **Requires assumptions:** | |
| Dictionary display system provides cho user question list interface and the ability to search question similar to question that user want to create | Dictionary display system requires user provide question that user want to search  *(\*Question that user want to search have content similar to content of question that user want to create)* | |
| Dictionary display system provides cho user question detail interface | Dictionary display system requires Dictionary management system provide questions that user want to view detail | |
| Dictionary display system provides cho user create answer interface | Dictionary display system requires user provide answer’s content in text format | |
| Dictionary display system provides cho Dictionary display system (andrioid app) web service to support to get list question that user want to search | Dictionary display system requires Dictionary display system (andrioid app) provide question list interface that user want to search is supported by web service of Dictionary display system | |
| Dictionary display system provides cho Dictionary display system (andrioid app) web service to support to view list question that user want | Dictionary display system requires Dictionary display system (andrioid app) provide list question that user want to view | |
| Dictionary display system provides cho Dictionary display system (andrioid app) web service to support to support show detail content of question and answer | Dictionary display system requires Dictionary display system (andrioid app) provide question that want to view detail | |
| Dictionary display system provides for database internet question and answer content | Dictionary display system requires database internet provide repository that save question and answer content | |
| Dictionary display system provides for Dictionary management system question and answer interface that is uploaded on internet | Dictionary display system requires Dictionary management system provide question and answer list that is upload/drop on internet | |
| **identified use cases:** | | |
|  |  | |

Table 15: Descrip entity Dictionary display system

#### Dictionary management system (andrioid app)

|  |  |  |
| --- | --- | --- |
| **Entity Name: Dictionary management system (andrioid app)** | | **ID: E12** |
| **Description:**  Dictionary management system (andrioid app) allow answer department to manage questions and answers. It allow answer department insert question to dictionary or drop question in dictionary | | |
| **Provides assumptions:** | **Requires assumptions:** | |
| Dictionary management system (andrioid app) provides for answer department user the ability to search data | Dictionary management system (andrioid app) requires answer department provides  information of question that users want search by text format | |
| Dictionary management system (andrioid app) provides for answer department detail answer interface | Dictionary management system (andrioid app) requires answer department provides information of question that user nesed show detail | |
| Dictionary management system (andrioid app) provides cho answer department answer interface by text format | Dictionary management system (andrioid app) requires answer department provides answer content by text format | |
| Dictionary management system (andrioid app) provides for answer department delete answer interface | Dictionary management system (andrioid app) requires answer department provides question content that user need delete | |
| Dictionary management system (andrioid app) provides cho answer department question restore interface | Dictionary management system (andrioid app) requires answer department provides question content that user need restore | |
| Dictionary management system (andrioid app) provides for answer department create question and answer interface | Dictionary management system (andrioid app) requires answer department provides question content that user need new creation | |
| Dictionary management system (andrioid app) provides for answer department insert and drop question interface | Dictionary management system (andrioid app) requires answer department provides question content that user need insert to dictionary | |
| Dictionary management system (andrioid app) provides for answer department upload question interface | Dictionary management system (andrioid app) requires answer department provides question content that user need upload to internet | |
| Dictionary management system (andrioid app) provides for answer department edit question interface | Dictionary management system (andrioid app) requires answer department provides nội dung câu hỏi and câu trả lời cần chỉnh sửa. | |
| Dictionary management system (andrioid app) provides for web service thuộc Dictionary management system interface where show detail question and answer | Dictionary management system (andrioid app) requires Dictionary management system provides web servoce to get question list | |
| Dictionary management system (andrioid app) provides for Dictionary management system question and answer content by web service of Dictionary management system | Dictionary management system (andrioid app) requires web service of Dictionary management system provides the ability to search question by text format | |
| Dictionary management system (andrioid app) provides for Dictionary management system question and anser content that is inserted to dictionary by web service of dictionary management system | Dictionary management system (andrioid app) requires web service of Dictionary management system provides the ability insert question to dictionary | |
| Dictionary management system (andrioid app) provides for Dictionary management system question and anser content that is upload to internet by web service of dictionary management system | Dictionary management system (andrioid app) requires web service of Dictionary management system the ability to upload question and answer content on internet | |
| Dictionary management system (andrioid app) provides for Dictionary management system nội dung câu hỏi and question and anser content that is drop on internet by web service of dictionary management system | Dictionary management system (andrioid app) requires web service thuộc Dictionary management system the ability drop question content and answer content on internet | |
| Dictionary management system (andrioid app) provides for Dictionary management system question nad answer content that need edit by web service | Dictionary management system (andrioid app) requires web service of Dictionary management system the aibility to edit question content and answer content | |
| Dictionary management system (andrioid app) provides for Dictionary management system question content that need delete by web service | Dictionary management system (andrioid app) requires web service of Dictionary management system the ability to delete question | |
| Dictionary management system (andrioid app) provides cho Dictionary management system question content that restore delete by web service | Dictionary management system (andrioid app) requires web service of Dictionary management system the ability to restore question that is deleted | |
| **identified use cases:** | | |
|  |  | |

Table 16: Descrip entity Dictionary management system (andrioid app)

#### Dictionary display system (andrioid app)

|  |  |  |
| --- | --- | --- |
| **Entity Name: Dictionary display system (andrioid app)** | | **ID: E13** |
| **Description:**  Display dictionary system(android) get information of question from Dictionary dictionary system to show and manage question by devices android | | |
| **Provides assumptions:** | **Requires assumptions:** | |
| Dictionary display system (andrioid app) provides for user list interface that is inseart on dictionary and the ability to search question | Dictionary display system (andrioid app) requires user provides keyword | |
| Dictionary display system (andrioid app) provides for user interface to view detail of question and answer that is inserted to dictionary | Dictionary display system (andrioid app) need user provides content of question that user want show detail question | |
| Dictionary display system (andrioid app) provides create question interface for user | Dictionary display system (andrioid app) requires user provides content of question by text format and information of user, include: user name, user email and content of question | |
| Dictionary display system (andrioid app) provides for web service of Dictionary display system provides question list interface that is inserted to dictionary by webservice | Dictionary display system (andrioid app) requires web service thuộc Dictionary display system provides question list that is inserted to dictionary | |
| Dictionary display system (andrioid app) provides cho web service of Dictionary display system question that need insert to dictionary | Công cụ hiển bộ từ điển trên android app requires web service of Dictionary display system provides the ability insert question to dictionary | |
| Dictionary display system (andrioid app) provides for web service of Dictionary display system question that need drop on dictionary | Dictionary display system (andrioid app) requires web service thuộc Dictionary display system provides the ability to drop question on dictionary | |
| **identified use cases:** | | |
|  |  | |

Table 17: Descrip entity Dictionary display system (andrioid app)

#### Mail server

|  |  |  |
| --- | --- | --- |
| **Entity Name: Mail Server** | | **ID: E14** |
| **Description:**  Mail server support answer department to send mail to users | | |
| **Provides assumptions:** | **Requires assumptions:** | |
| Mail server provides for Dictionary management system the ability to send mail to users | Mail server requires Dictionary management system provides address of user, email address of answer department and answer content by text format | |
| **identified use cases:** | | |
|  |  | |

Table 18: Descrip entity Mail server

#### Database intranet

|  |  |  |
| --- | --- | --- |
| **Entity Name: Database intranet** | | **ID:E15** |
| **Description:**  Database intranet contain data that is provided from Article system and support data of article and catalog | | |
| **Provides assumptions:** | **Requires assumptions:** | |
| Database intranet provides for Article system nơi lưu trữ dữ liệu | Database intranet requires Article system provides data of article and catalog that need save to database | |
| Database intranet provides for Display article-intra article content and catalog content and position of them on internet | Database intranet requires dictionary display system provices article list and catalog list interface and position of them on internet | |
| **identified use cases:** | | |
|  |  | |

Table 19: Descrip entity Database intranet

#### Database internet

|  |  |  |
| --- | --- | --- |
| **Entity Name: Database internet** | | **ID:E16** |
| **Description:**  Database internet contain data that is provided from Display article-inter and Dictionary management system, And support save data which relate to content of question and answer of dictionary | | |
| **Provides assumptions:** | **Requires assumptions:** | |
| Database internet provides for Display article-inter repository of article that is uploaded to internet | Database internet requires Display article-inter provides content of article and catalog that need show on internet | |
| Database internet provides for Dictionary management system user repository of answer that need send to users | Database internet requires Dictionary management system provides content of answer that need send to user | |
| Database internet provides for Dictionary display system content of question and answer on dictionary | Database internet requires Dictionary display system provides interface that can show content of question and answer on dictionary | |
| **identified use cases:** | | |
|  |  | |

Table 20: Descrip entity Database internet

#### User management

|  |  |  |
| --- | --- | --- |
| **Entity Name: User management** | | **ID:E17** |
| **Description:**  User management is person who used User management module support to Article system and Dictionary management system in manage information of users | | |
| **Provides assumptions:** | **Requires assumptions:** | |
| User management provides for module User management name of user who need authorize | User management requires User management module provides the ability to edit authorization of users | |
| User management provides for module User management name of user who need hide on system | User management requires User management module provides the ability to hide user | |
| **identified use cases:** | | |
| * Create Account | UC06.01 | |
| * Show detail information | UC06.02 | |
| * Change Password | UC06.03 | |

Table 21: Descrip entity User management

#### User management module

|  |  |  |
| --- | --- | --- |
| **Entity Name: User management module** | | **ID:E14** |
| **Description:**  User management module support users manager to manage information of user and it is intergrate to Article system or Dictionary management system to support authorize | | |
| **Provides assumptions:** | **Requires assumptions:** | |
| User management module provides for user management the ability to edit authorization of user | User management module requires user management provides information of user that user manager need edit authorization | |
| User management module provides cho user management the ability to hide user | User management module requires user management provides name of user who need hide | |
| **identified use cases:** | | |
|  |  | |

Table 22: Descrip entity User management module

## Use Case List

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Use Case** | **Entities liên quan** | **Môi trường** |
| Article system | | | |
| [UC01.01](#_Tạo_bản_tin) | Create article | E01  E02  E03  E07  E15 | - Web application |
| [UC01.02](#_Chỉnh_sửa_bản) | Edit article | E01  E02  E03  E07  E15 | - Web application |
| [UC01.03](#_Tìm_kiếm_bản) | Search articles | E01  E02  E03  E07  E15 | - Web application |
| [UC01.04](#_Tìm_kiếm_bản_1) | Search related articles | E01  E02  E03  E07  E15 | - Web application |
| [UC01.05](#_Xem_nội_dung) | View article | E01  E02  E03  E07  E15  E16 | - Web application |
| [UC01.06](#_Xem_trước_bản) | Preview articles | E01  E02  E03  E07 | - Web application |
| [UC01.07](#_Chuyển_tin) | Transfer articles | E02  E03  E07  E15 | * Web application |
| [UC01.08](#_Duyệt_tin) | Approve articles | E01  E02  E07  E15 | - Web application |
| [UC01.09](#_Trả_tin) | Return article | E01  E02  E07  E15 | - Web application |
| [UC01.10.01](#_Đăng_tin) | Đăng tin | E01  E07  E15  E16 | - Web application |
| [UC01.10.02](#_Đăng_tin_HTML) | Upload article HTML | E02  E03  E07  E15  E16 | - Web application |
| [UC01.11.01](#_Hạ_tin) | Hạ tin | E01  E07  E15  E16 | - Web application |
| [UC01.11.02](#_Hạ_tin_HTML) | Drop article HTML | E02  E03  E07  E16  E15 | - Web application |
| [UC01.12](#_Lấy_về) | Get articles | E02  E03  E07  E15 | - Web application |
| [UC01.13.01](#_Ủy_quyền) | Ủy quyền | E01  E07  E15 | - Web application |
| [UC01.13.02](#_Hủy_ủy_quyền) | Hủy ủy quyền | E01  E07  E15 | - Web application |
| [UC01.14](#_Xóa_tin) | Delete articles | E01  E02  E03  E07  E15 | - Web application |
| [UC01.15](#_Xóa_vĩnh_viễn) | Deleted article permanently | E01  E02  E03  E07  E15 | - Web application |
| [UC01.16](#_Sắp_xếp_tin) | Sort articles | E01  E07  E15  E16 | - Web application |
| [UC01.17](#_Ý_kiến) | Comment | E01  E02  E03  E07  E15 | - Web application |
| [UC01.18](#_Xem_danh_sách) | View catalog | E05  E07  E15 | - Web application |
| [UC01.19](#_Tạo_danh_mục) | Create catalog | E05  E07  E15  E16 | - Web application |
| [UC01.20](#_Chỉnh_sửa_danh) | Edit catalog | E05  E07  E15  E16 | - Web application |
| [UC01.21](#_Xóa_danh_mục) | Delete catalog | E05  E07  E15  E16 | - Web application |
| [UC01.22](#_Sắp_xếp_danh) | Sort catalog | E05  E07  E15  E16 | - Web application |
| Dictionary management system | | | |
| [UC02.01](#_Tìm_kiếm) | Search | E05  E10  E15 | - Web application |
| [UC02.02](#_Xem_nội_dung_1) | View question detail | E05  E10  E15 | - Web application |
| [UC02.03](#_Tạo_câu_hỏi) | Send Mail | E05  E10  E14  E15 | - Web application |
| [UC02.04.01](#_Xóa_câu_hỏi) | Delete question | E05  E10  E15 | - Web application |
| [UC02.04.02](#_Xóa_nhiều_câu) | Delete more question | E05  E10  E15 | - Web application |
| [UC03.05.01](#_Khôi_phục_câu) | Restore question | E05  E10  E15 | - Web application |
| [UC03.05.02](#_Khôi_phục_nhiều) | Restore more question | E05  E10  E15 | - Web application |
| [UC02.06](#_Đưa_vào_từ) | Insert question into dict | E05  E10  E15 | - Web application |
| [UC02.07](#_Chỉnh_sửa_câu) | Update question | E05  E10  E15 | - Web application |
| [UC02.08.01](#_Đăng_câu_hỏi) | Upload-dict | E05  E10  E15  E16 | - Web application |
| [UC02.08.02](#_Đăng_nhiều_câu) | Upload-dict more | E05  E10  E15  E16 | - Web application |
| [UC02.09.01](#_Hạ_câu_hỏi) | Drop-dict | E05  E10  E15  E16 | - Web application |
| [UC02.09.02](#_Hạ_nhiều_câu) | Drop-dict more | E05  E10  E15  E16 | - Web application |
| [UC02.10](#_Tạo_index) | Create index | E05  E10  E15 | - Web application |
| [UC02.11](#_Tạo_câu_hỏi_1) | Create question | E05  E10  E15 | - Web application |
| [UC02.12](#_Cấu_hình_người) | User config | E05  E10  E15 | - Web application |
| [UC02.13](#_Cấu_hình_mail) | Mail config | E05  E10  E15 | - Web application |
| [UC02.14](#_Cấu_hình_hệ) | System config | E05  E10  E15 | - Web application |
| [UC02.15](#_Trợ_giúp) | Help | E05  E10 | - Web application |
| [UC02.16](#_Thay_đổi_phân) | Thay đổi phân trang | E05  E10 | - Web application |
| Dictionary display system | | | |
| [UC03.01](#_Tìm_kiếm_câu) | Search question | E06  E11  E16 | - Web application |
| [UC03.02](#_Xem_chi_tiết) | Xem chi tiết câu hỏi | E06  E11  E16 | - Web application |
| [UC03.03](#_Tạo_câu_hỏi_2) | Create question | E06  E11  E15 | - Web application |
| [UC03.04](#_Thay_đổi_phân_1) | Thay đổi phân trang | E06  E11 | - Web application |
| **Dictionary management system (andrioid app)** | | | |
| [UC04.01](#_Tìm_kiếm_trên) | Tìm kiếm trên android app | E05  E12  E15 | - Android application |
| [UC04.02](#_Xem_nội_dung_2) | View question detail trên android app | E05  E12  E15 | - Android application |
| [UC04.03](#_Tạo_câu_trả) | Send Mail trên android app | E05  E12  E14  E15 | - Android application |
| [UC04.04](#_Xóa_câu_hỏi_1) | Delete question trên android app | E05  E12  E15  E16 | - Android application |
| [UC04.05](#_Khôi_phục_câu_1) | Restore question trên android app | E05  E12  E15  E16 | - Android application |
| [UC04.06](#_Đưa_vào_từ_1) | Insert question into dict trên android app | E05  E12  E15  E16 | - Android application |
| [UC04.07](#_Chỉnh_sửa_câu_1) | Update question trên android app | E05  E12  E15  E16 | - Android application |
| [UC04.08](#_Đăng_câu_hỏi_1) | Upload-dict trên android app | E05  E12  E15  E16 | - Android application |
| [UC04.09](#_Hạ_câu_hỏi_1) | Drop-dict trên android app | E05  E12  E15  E16 | - Android application |
| [UC04.10](#_4.3.1.4.10._Tạo_câu) | Create question trên android app | E05  E12  E15 | - Android application |
| **Dictionary display system (andrioid app)** | | | |
| [UC05.01](#_Tìm_kiếm_trên) | Tìm kiếm trên android app hiển thị | E06  E13  E16 | - Android application |
| [UC05.02](#_Xem_nội_dung_3) | Xem chi nội dung câu hỏi trên android app hiển thị | E06  E13  E16 | - Android application |
| [UC05.03](#_Tạo_câu_hỏi_3) | Create question trên android app hiển thị | E06  E13  E15 | - Android application |
| **Tính năng quản trị người dung** | | | |
| [UC06.01](#_Tạo_tài_khoản) | Tạo tài khoản | E04  E07  E10  E15 | - Web application |
| [UC06.02](#_Xem_thông_tin) | Xem thông tin tài khoản | E04  E07  E10  E15 | - Web application |
| [UC06.03](#_Đổi_mật_khẩu) | Đổi mật khẩu | E04  E07  E10  E15 | - Web application |
| **Hệ thống** | | | |
| [UC07.01](#_Đăng_nhập_công) | Đăng nhập Article system | E01  E02  E03  E04  E07  E12  E15 | - Web application |
| [UC07.02](#_Đăng_xuất_công) | Đăng xuất Article system | E01  E02  E03  E04  E07  E12  E15 | - Web application |
| [UC07.03](#_Đăng_nhập_công_1) | Đăng nhập Dictionary management system | E05  E10  E15 | - Web application |
| [UC07.04](#_Đăng_xuất_công_1) | Đăng xuất Dictionary management system | E05  E10  E15 | - Web application |
| [UC07.05](#_Đăng_nhập_android) | Đăng nhập android app | E05  E12  E15 | - Android application |
| [UC07.06](#_Đăng_xuất_android) | Đăng xuất android app | E05  E12  E15 | - Android application |

Table 23: Danh sách usecase

### Descrip usecase

#### Article system

##### Create article

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Create article | **Usecase ID** | UC01.01 |
| **Description** | Allow Editor-in-chief (**E01**), Editor (**E02**), Reporter (**E03**) to create new article by Article system (**E07**) and new article will save to database intranet (**E15**) | | |
| **Entities Involves** | * Editor-in-chief (**E01**) * Editor (**E02**) * Reporter (**E03**) * Article system (**E07**) * Database intranet (**E15**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E07, E15** is running * **E01, E02, E03** created account to login to **E07** * **E01, E02, E03** login to **E07** * **E01, E02, E03** want create new article * New article haven’t to exist **E15** | | |
| **Main flow** | 1. **E01, E02, E03** choose creation article interface 2. **E01, E02, E03** choose **Tạo tin** 3. **E07** show creation article interface 4. **E01, E02, E03** input information of article 5. **E01, E02, E03** choose **Lưu** 6. **E07** save information of article to **E15** 7. **E15** saved content of article 8. **E07** show message box the article is saved and wait to apporve | | |
| **Post conditions** | Bản tin đã được tạo mới nhằm phục vụ cho công việc của **E01, E02, E03**  Article is created to support to the work of **E01, E02, E03** | | |
| **Alternate flows** | **Case A4:** | | |
| **A4.1. Thông tin không đầy đủ**   1. **E01, E02, E03** input information of article (information is not enough) 2. **E01, E02, E03** choose **Lưu** 3. **E07** show message-box information of artile is not enough and requires input information is enough 4. **E01, E02, E03** input information of article again(information is enough) 5. **E01, E02, E03** choose **Lưu** 6. **E07** save article to **E15** 7. **E15** saved information of article 8. **E07** show message box the article is saved and wait to apporve | | |
| **Case A5:** | | |
| 1. **Lưu tạm** 2. **E01, E02, E03** choose **Lưu tạm.** 3. **E07** save article to **E15.** 4. **E15** save information of article 5. **E07** show message box the article is saved | | |
| 1. **Hủy tạo tin** 2. **E01, E02, E03** choose **Hủy** 3. **E07** show message to confirm cancle artile 4. **E01, E02, E03** choose **Đồng ý** 5. **E07** return to creation article interface | | |
| **Exceptional flow** | **Case Ex01: Mất kết nối máy chủ khi lưu** | | |
| 1. **E01, E02, E03** choose creation article 2. **E01, E02, E03** choose **Tạo tin** 3. **E07** show creation article interface 4. **E01, E02, E03** input information of article 5. **E07** show message server not found and require cancle 6. **E01, E02, E03** choose **Đồng ý** 7. **E07** save information of article to **E15** 8. **E15** saved information of article 9. **E07** return to creation article interface 10. **E01, E02, E03** choose artile that is saving temporary 11. **E07** show detail of article 12. **E01, E02, E03** choose edit 13. **E07** show Editor article interface | | |
| **Case Ex02: Nhấn F5** | | |
| 1. **E01, E02, E03** choose creation article 2. **E01, E02, E03** choose **Tạo tin** 3. **E07** show creation article interface 4. **E01, E02, E03**  input information of article 5. **E01, E02, E03** choose **F5** 6. **E07** saved information of article to **E15** 7. **E07** return to creation article interface 8. **E01, E02, E03** choose artile that is saving temporary 9. **E07** show detail of article 10. **E01, E02, E03** choose edit 11. **E07** show Editor article interface | | |
| **Case Ex03: Time out** | | |
| 1. **E01, E02, E03** choose creation article 2. **E01, E02, E03** choose **Tạo tin** 3. **E07** show creation article interface 4. **E01, E02, E03**  input information of article 5. **E07** show message **Request time out** 6. **E07** saved information of article to **E15** 7. **E01, E02, E03** choose **F5** 8. **E07** return to creation article interface 9. **E01, E02, E03** choose artile that is saving temporary 10. **E07** show detail of article 11. **E01, E02, E03** choose edit 12. **E07** show Editor article interface | | |

Table 24: Descrip usecase Create article

##### Edit article

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Edit article | **Usecase ID** | UC01.02 |
| **Description** | Allow Editor-in-chief (**E01**), Editor (**E02**), Reporter (**E03**) to edit article by Article system (**E07**) and information of article that is edited is saved to database intranet (**E15**) | | |
| **Entities Involves** | * Editor-in-chief (**E01**) * Editor (**E02**) * Reporter (**E03**) * Article system (**E07**) * Database intranet (**E15**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E07, E15** is running * **E01**, **E02**, **E03** must have a account **E07** * **E01, E02, E03** login to **E07** * **E01, E02, E03** want edit article * Article that neeed edit have to created and saved to **E15** | | |
| **Main flow** | 1. **E01, E02, E03** choose creation article 2. **E01, E02, E03** choose **Danh sách bài viết** 3. **E07** show article list 4. **E01, E02, E03** choose article which need edit 5. **E01, E02, E03** choose **Chỉnh sửa** 6. **E07** show edit article interface 7. **E01, E02, E03** edit content of article 8. **E01, E02, E03** choose **Lưu** 9. **E07** save information of article to **E15** 10. **E15** saved information of article 11. **E07** show message-box the article is saved and wait to approve | | |
| **Post conditions** | Article have to edited and saved to **E15** to support to work of **E01** or **E02** | | |
| **Alternate flows** | **Case A7:** | | |
| **A7.1. Inforrmation is not enough**   * + 1. **E01, E02, E03** edit content of article information is not enough)     2. **E01, E02, E03** choose **Lưu**     3. **E07** show message information of article is not enough and requires input enough information     4. **E01, E02, E03** edit content of article (information is enough)     5. **E01, E02, E03** choose **Lưu**     6. **E07** save information of article to **E15**     7. **E15** saved information of article     8. **E07** show message-box the article is saved and wait to approve | | |
| **Case A8:** | | |
| **A8.1. Lưu tạm**   1. **E01, E02, E03** choose **Lưu tạm** 2. **E07** save information of article to **E15** 3. **E15** saved information of article 4. **E07** show message-box the article is saved. | | |
| **A8.2. Hủy chỉnh sửa**   * + 1. **E01, E02, E03** choose **Hủy**     2. **E07** show message-box to confirm cancle     3. **E01, E02, E03** choose **Đồng ý**     4. **E07** return edit article interface | | |
| **Exceptional flow** |  | | |

Table 25: Descrip usecase Edit article

##### Search articles

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Search articles | **Usecase ID** | UC01.03 |
| **Description** | Allow Editor-in-chief (**E01**), Editor (**E02**), Reporter (**E03**) to search articles by Article system (**E07**) | | |
| **Entities Involves** | * Editor-in-chief (**E01**) * Editor (**E02**) * Reporter (**E03**) * Article system (**E07**) * Database intranet (**E15**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E07, E15** is running * **E01**, **E02**, **E03** must have a account **E07** * **E01, E02, E03** login to **E07** * **E01, E02, E03** want search articles. * Article that **E01, E02, E03** want search is created and saved to**E15** | | |
| **Main flow** | 1. **E01, E02, E03** choose creation article interface 2. **E07** show article list 3. **E01, E02, E03** input keyword 4. **E01, E02, E03** choose **Search** 5. **E07** show result | | |
| **Post conditions** | Article that is searched support to work of **E01, E02, E03** | | |
| **Alternate flows** |  | | |
| **Exceptional flow** | **Case Ex01: article is not found** | | |
| 1. **E01, E02, E03** choose creation article interface 2. **E07** show article list 3. **E01, E02, E03** input keyword 4. **E01, E02, E03** choose **Search** 5. **E07** show message box article is not found | | |

Table 26: Descrip usecase Search articles

##### Search related articles

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Search related articles | **Usecase ID** | UC01.04 |
| **Description** | Allow Editor-in-chief (**E01**), Editor (**E02**), Reporter (**E03**) to search related articles by Article system (**E07**) | | |
| **Entities Involves** | * Editor-in-chief (**E01**) * Editor (**E02**) * Reporter (**E03**) * Article system (**E07**) * Database intranet (**E15**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E07, E15** is running * **E01**, **E02**, **E03** must have a account **E07** * **E01, E02, E03** login to **E07** * **E01, E02, E03** want to search related articles * Related Article have to created and saved to **E15** | | |
| **Main flow** | 1. **E01, E02, E03** choose creation article interface 2. **E01, E02, E03** choose **Search related articles** 3. **E07** show search related articles interface 4. **E01, E02, E03** input keyword 5. **E01, E02, E03** choose **Search** 6. **E07** show result in result list of related articles interface. 7. **E01, E02, E03** choose name of related article that need search 8. **E01, E02, E03** choose **Chọn** 9. **E07** return creation article interface | | |
| **Post conditions** | Article is searched and add to related article list support to work of **E01, E02, E03** | | |
| **Alternate flows** |  | | |
| **Exceptional flow** | **Case Ex01: Related Article is not found** | | |
| 1. **E01, E02, E03** choose creation article interface 2. **E01, E02, E03** choose **Search related articles** 3. **E07** show search related articles interface 4. **E01, E02, E03** input keyword 5. **E01, E02, E03** choose **Search** 6. **E07** show message-box related article is not found | | |

Table 27: Descrip usecase Search related articles

##### View article

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | View article | **Usecase ID** | UC01.05 |
| **Description** | Allow Editor-in-chief (**E01**), Editor (**E02**), Reporter (**E03**) to preview articles before upload article to internet or intranet by Article system (**E07**) | | |
| **Entities Involves** | * Editor-in-chief (**E01**) * Editor (**E02**) * Reporter (**E03**) * Article system (**E07**) * Database intranet (**E15**) * Database internet (**E16**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E07, E15** is running * **E01**, **E02**, **E03** must have a account **E07** * **E01, E02, E03** login to **E07** * **E01, E02, E03** want to show content of article that is created and saved to **E15** hoặc **E16** before upload on internet | | |
| **Main flow** | 1. **E01, E02, E03** choose creation article interface 2. **E01, E02, E03** choose **Danh sách bài viết** 3. **E07** show article list 4. **E01, E02, E03** choose name of article 5. **E01, E02, E03** choose **Xem** 6. **E07** show detail of article intermation | | |
| **Post conditions** | Content of article is show to support to work of **E01, E02, E03** | | |
| **Alternate flows** |  | | |
| **Exceptional flow** |  | | |

Table 28: Descrip usecase View article

##### Preview articles

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Preview articles | **Usecase ID** | UC01.06 |
| **Description** | Allow Editor-in-chief (**E01**), Editor (**E02**), Reporter (**E03**) to preview articles before upload to internet or intranet by Article system (**E07**) | | |
| **Entities Involves** | * Editor-in-chief (**E01**) * Editor (**E02**) * Reporter (**E03**) * Article system (**E07**) * Database intranet (**E15**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E07, E15** is running * **E01**, **E02**, **E03** must have a account **E07** * **E01, E02, E03** login to **E07** * **E01, E02, E03** want to preview content of article * Article that want preview have to created and saved tô **E15** | | |
| **Main flow** | 1. **E01, E02, E03** choose creation article interface 2. **E01, E02, E03** choose **Danh sách bài viết** 3. **E07** show article list 4. **E01, E02, E03** choose name of article that need preview 5. **E01, E02, E03** choose **Xem trước** 6. **E07** show choosen position to preview interface 7. **E01, E02, E03** choose **Intranet** 8. **E01, E02, E03** choose **Xem** 9. **E07** show content of article that neeed preview by preview interface of internet | | |
| **Post conditions** | Content of article have to show preview interface of intranet to support to work of **E01, E02, E03** | | |
| **Alternate flows** | **Case A7:** | | |
| **A7.1. Preview articles on internet**   1. **E01, E02, E03** choose **Internet** 2. **E01, E02, E03** choose **Xem** 3. **E07** show content of article on preview interface of internet | | |
| **Exceptional flow** |  | | |

Table 29: Descrip usecase Preview articles

##### Transfer articles

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Transfer articles | **Usecase ID** | UC01.07 |
| **Description** | Allow Editor (**E02**), Reporter (**E03**) to transfer articles to colleague by Article system (**E07**) | | |
| **Entities Involves** | * Editor (**E02**) * Reporter(**E03**) * Article system (**E07**) * Database intranet (**E15**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E07, E15** is running * **E02**, **E03** must have a account **E07** * **E02, E03** login to **E07** * **E02, E03** want to transfer articles * Article that need transfer have to created and saved to **E15** | | |
| **Main flow** | 1. **E02, E03** choose creation article interface 2. **E02, E03** choose **Danh sách bài viết** 3. **E07** show article list 4. **E02, E03** choose article that need transfer 5. **E02, E03** choose **Chuyển bản tin** 6. **E07** show transfer articles interface 7. **E02, E03** choose recipient 8. **E02, E03** choose **Chuyển** 9. **E07** show message box to confirm 10. **E02, E03** choose **Đồng ý** to confirm transfer articles 11. **E07** update information of article to **E15** 12. **E15** saved information that is changed | | |
| **Post conditions** | Article is transferred to other people to support to create and approve article | | |
| **Alternate flows** | **Case A10:** | | |
| **A10.1. Choose Hủy in message-box**   1. **E02, E03** choose **Hủy** to refuse 2. **E07** return transfer article interface | | |
| **Exceptional flow** |  | | |

Table 30: Descrip usecase Transfer articles

##### Approve articles

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Approve articles | **Usecase ID** | UC01.08 |
| **Description** | Allow Editor-in-chief (**E01**), Editor (**E02**) to review and approve by Article system (**E07**) | | |
| **Entities Involves** | * Editor-in-chief (**E01**) * Editor (**E02**) * Article system (**E07**) * Database intranet (**E15**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E07** is running * **E01**, **E02** must have a account **E07** * **E01, E02** login to **E07** * **E01, E02** want to review and approve article * Article have to created and saved to **E15** | | |
| **Main flow** | 1. **E01, E02** choose creation article interface 2. **E01, E02** choose **Danh sách bài viết chờ duyệt** 3. **E07** waiting approve article interface 4. **E01, E02** choose article 5. **E07** show detail article 6. **E01, E02** choose **Xác nhận** 7. **E07** message-box to approve article 8. **E01, E02** choose **Đồng ý** to approve articles 9. **E07** show message confirmation is success 10. **E07** update information of article to **E15** 11. **E15** saved information of article | | |
| **Post conditions** | Article is moved to **Danh sách bài viết đã duyệt** to support work of **E01, E02** | | |
| **Alternate flows** | **Case A8:** | | |
| **A8.1. Cancle approve articles**   1. **E01, E02** Choose **Hủy** to cancle approve article 2. **E07** return article list interface | | |
| **Exceptional flow** |  | | |

Table 31: Descrip usecase Approve articles

##### Return article

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Return article | **Usecase ID** | UC01.09 |
| **Description** | Allow Editor-in-chief (**E01**), Editor (**E02**) to return article for sender by Article system (**E07**) | | |
| **Entities Involves** | * Editor-in-chief (**E01**) * Editor (**E02**) * Article system (**E07**) * Database intranet (**E15**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E07, E15** is running * **E01**, **E02** must have a account **E07** * **E01, E02** login to **E07** * **E01, E02** want to return article for sender * Article have to move to **Danh sách bài viết chờ duyệt** and saved to **E15** | | |
| **Main flow** | 1. **E01, E02** choose creation article interface 2. **E01, E02** choose **Danh sách bài viết chờ duyệt** 3. **E07** show article that is waiting approve 4. **E01, E02** choose article that need return 5. **E07** show content of article that is choosed 6. **E01, E02** choose **Trả bản tin** 7. **E07** show **Lý do trả tin** interface 8. **E01, E02** input reason to return article 9. **E01, E02** choose **Trả bản tin** to confirm return article 10. **E07** show message-box return article is success 11. **E07** update information of article **E15** 12. **E15** saved information of article | | |
| **Post conditions** | Article have to return to **Danh sách bài viết** | | |
| **Alternate flows** | **Case A6:** | | |
| **A6.1. Choose Hủy**   1. **E01, E02** choose **Hủy** 2. **E07** show article list | | |
| **Case A9:** | | |
| **A9.1. Choose Hủy when save the return article reason**   * + 1. **E01, E02** choose **Hủy**     2. **E07** return to **Danh sách bài viết chờ duyệt interface** | | |
| **Exceptional flow** |  | | |

Table 32: Descrip usecase Return article

##### Upload Article

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Đăng tin | **Usecase ID** | UC01.10.01 |
| **Description** | Allow Editor-in-chief (**E01**) to upload article to internet or intranet by Article system (**E07**) | | |
| **Entities Involves** | * Editor-in-chief (**E01**) * Article system (**E07**) * Display article-inter (**E08**) * Display article-intra (**E09**) * Database intranet (**E15**) * Database internet (**E16**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E07, E08, E09, E15, E16** is running * **E01** must have a account **E07** * **E01** login to **E07** * **E01** want to upload to internet or intranet * Article have to approved and moved to **Danh sách bài viết đã duyệt** and saved to **E15** | | |
| **Main flow** | 1. **E01** choose creation article interface 2. **E01** choose **Danh sách bài viết đã duyệt** 3. **E07** approved article list 4. **E01** choose article 5. **E07** show detail article 6. **E01** choose **Đăng tin intranet** 7. **E07** show message-box to confirm 8. **E01** choose **Đồng ý** to confirm 9. **E07** update information of article that is uploaded to **E15** 10. **E15** save information of article 11. **E07** create index and send by webservice 12. Webservice save information index 13. **E07** show message-box upload is success | | |
| **Post conditions** | Article that is upload to intranet is success | | |
| **Alternate flows** | **Case A6:** | | |
| A6.1. upload to internet   * + 1. **E01** choose **Đăng tin internet**     2. **E07** show message-box to confirm     3. **E01** choose **Đồng ý** to confirm     4. **E07** update information to webservice of **E08** and **E16**     5. Webservice of **E08** update index | | |
| **Case A8:** | | |
| **A8.1. Choose Hủy to confirm**   1. **E01** choose **Hủy** to cancle upload article 2. **E07** show detail article that need upload | | |
| **Exceptional flow** |  | | |

Table 33: Descrip usecase Đăng tin

##### Upload article HTML

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Upload article HTML | **Usecase ID** | UC01.10.02 |
| **Description** | Allow Editor (**E02**), Reporter (**E03**) to upload article HTML on internet by intranet which didn’t need approve articles thông qua Article system (**E07**) | | |
| **Entities Involves** | * Editor (**E02**) * Reporter (**E03**) * Article system (**E07**) * Display article-inter (**E08**) * Display article-intra (**E09**) * Database intranet (**E15**) * Databse internet (**E16**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E07, E08, E09, E15, E16** is running * **E02, E03** must have a account **E07** * **E02, E03** login to **E07** * **E02, E03** want to upload article HTML to internet to intranet * Article HTML want to internet or intranet have to moved to **Danh sách bài viết**, and saved to **E15** | | |
| **Main flow** | 1. **E02**, **E03** choose creation article interface 2. **E02**, **E03** choose **Danh sách bài viết** 3. **E07** show article list 4. **E02**, **E03** choose article HTML that need upload 5. **E07** show detail article content that is choosed 6. **E02**, **E03** chọn **Đăng bản tin HTML** 7. **E07** show message to confirm 8. **E02**, **E03** choose **Đồng ý** to confirm upload article HTML 9. **E07** update information of Article that is upload to **E15** 10. **E15** saved to Article is upload 11. **E07** create index and send to webservice 12. Webservice upload index 13. **E07** show message upload article HTML is success | | |
| **Post conditions** | Article HTML is uploaded on internet | | |
| **Alternate flows** | **Case A6:** | | |
| **A6.1: Upload article HTML on internet**   1. **E02, E03** choose **Upload article HTML on internet** 2. **E07** show message-box confirm 3. **E02, E03** choose **Đồng ý** to confirm upload article HTML 4. **E07** update information of article by **E08** and **E16** 5. Webservice of E08 update index | | |
| **Case A8:** | | |
| **A8.1: Choose Hủy when confirm article**   1. **E02**, **E03** chọn **Hủy** to cancle upload article HTML 2. **E07** show article HTML list that are need upload | | |
| **Exceptional flow** |  | | |

Table 34: Descrip usecase Upload article HTML

##### Drop article

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Hạ tin | **Usecase ID** | UC01.11.01 |
| **Description** | Allow Editor-in-chief (**E01**) to drop article on internet or intranet by Article system (**E07**) | | |
| **Entities Involves** | * Editor-in-chief (**E01**) * Article system (**E07**) * Database intranet (**E15**) * Database intranet (**E16**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E07, E15, E16** is running * **E01** must have a account **E07** * **E01** login to **E07** * **E01** want to drop article from internet or intranet * Article that want drop from internet of intranet have to created and uploaded on internet or intranet | | |
| **Main flow** | 1. **E01** choose creation article interface 2. **E01** choose **Danh sách bài viết đã đăng** 3. **E07** show article list 4. **E01** choose article that need drop 5. **E07** show detail article 6. **E01** choose **Hạ tin intranet** 7. **E07** show message-box drop article 8. **E01** choose **Đồng ý** to confirm article 9. **E07** update information of article that need drop to **E15** 10. **E15** saved information of article 11. **E07** send requires update index by webservice 12. Webservice update index file 13. **E07** show message-box drop article is success | | |
| **Post conditions** | Article have to droped and content of article have to saved on **Danh sách bài viết đã hạ** | | |
| **Alternate flows** | **Case A6:** | | |
| **A6.1: Drop article to internet**   1. **E01** choose **Drop internet** 2. **E07** show message-box to confirm 3. **E01** choose **Đồng ý** to confirm drop article 4. **E07** update information of drop article **E15, E16** 5. **E15, E16** save information of drop article 6. **E07** send requires update index by webservice **E08** 7. Webservice **E08** update index of article that is droped 8. **E07** show message-box article drop is success. | | |
| **Case A8:** | | |
| **A8.1: Choose Hủy to confirm drop article**   1. **E01** choose **Hủy** to cancle drop article 2. **E07** show drop article list | | |
| **Exceptional flow** |  | | |

Table 35: Descrip usecase Hạ tin

##### Drop article HTML

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Drop article HTML | **Usecase ID** | UC01.11.02 |
| **Description** | Allow Editor (**E02**) và Reporter (**E03**) to drop article HTML that is uploaded on internet or intranet by Article system (**E07**) | | |
| **Entities Involves** | * Editor (**E02**) * Reporter (**E03**) * Article system (**E07**) * Database intranet (**E15**) * Database internet (**E16**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E07, E15, E16** is running * **E02, E03** đã must have a account **E07** * **E02, E03** login to **E07** * **E02, E03** want to drop article HTML from internet or intranet * Article HTML want to drop internet or intranet | | |
| **Main flow** | 1. **E02, E03** choose creation article interface 2. **E02, E03** choose **Danh sách bài viết đã đăng** 3. **E07** show article HTML list 4. **E02, E03** choose article HTML 5. **E07** show content of article HTML 6. **E02, E03** choose **Drop article HTML intranet** 7. **E07** show message-box to confirm drop article HTML 8. **E02, E03** choose **Đồng ý** to confirm drop article HTML 9. **E07** update information of article HTML **E15** 10. **E15** saved article HTML 11. **E07** send requires update index by webservice 12. Webservice update index 13. **E07** show message-box drop article HTML is success | | |
| **Post conditions** | Article is drop on internet or intranet, content of article have saved in **Danh sách bài viết đã hạ** | | |
| **Alternate flows** | **Case A6:** | | |
| **A6.1: Drop article HTML on internet**   1. **E02, E03** choose **Drop article HTML on internet** 2. **E07** show message-box to confirm drop article HTML 3. **E02, E03** choose **Đồng ý** to confirm drop article HTML 4. **E07** update information of drop article **E15, E16** 5. **E15, E16** saved information of article 6. **E07** send requires update index by webservice **E08** 7. Webservice **E08** update index 8. **E07** hiển thị thông báo drop article HTML thành công | | |
| **Case A8:** | | |
| **A8.1: Choose Hủy to confirm drop article HTML**   1. **E02, E03** choose **Hủy** to cancle drop article HTML 2. **E07** show detail of article HTML | | |
| **Exceptional flow** |  | | |

Table 36: Descrip usecase Drop article HTML

##### Get articles

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Get articles | **Usecase ID** | UC01.12 |
| **Description** | Allow Editor (**E02**), Reporter (**E03**) to get article that is waiting approve by Article system (**E07**) | | |
| **Entities Involves** | * Editor (**E02**) * Reporter (**E03**) * Article system (**E07**) * Database intranet (**E15**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E07, E15** is running * **E02, E03** must have a account **E07** * **E02, E03** login to **E07** * **E02, E03** want to get article that is waiting approve * Article is saving in **E15** and waiting approve | | |
| **Main flow** | 1. **E02**, **E03** choose creation article interface 2. **E02**, **E03** choose **Danh sách bài viết chờ duyệt** 3. **E07** show article that is waiting list 4. **E02**, **E03** choose article 5. **E07** show content of article 6. **E02**, **E03** choose **Lấy lại bản tin** 7. **E07** show message-box to confirm 8. **E02**, **E03** choose **Đồng ý** to confirm get articles 9. **E07** update information to **E15** 10. **E15** saved information 11. **E07** hiển thị thông báo lấy bản tin về thành công | | |
| **Post conditions** | Artile have to get and saved in **Danh sách bài viết** to support to work of **E02, E03** | | |
| **Alternate flows** | **Case A8:** | | |
| **A8.1: Choose Hủy when confirm**   1. **E02**, **E03** choose **Hủy** to confirm get articles 2. **E07** show detail content of article. | | |
| **Exceptional flow** |  | | |

Table 37: Descrip usecase Get articles

##### Authorize

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Authorize | **Usecase ID** | UC01.13.01 |
| **Description** | Allow Editor-in-chief (**E01**) to authorize for other people on period of time by Article system (**E07**) | | |
| **Entities Involves** | * Editor-in-chief (**E01**) * Article system (**E07**) * Database intranet (**E15**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E07, E15** is running * **E01** must have a account **E07** * **E01** login to **E07** * **E01** want to authorize for other people * Person who is authorized have to account **E07** | | |
| **Main flow** | 1. **E01** choose created article interface 2. **E01** choose **Ủy quyền** 3. **E07** show authorization interface 4. **E01** choose person who will authorize, set time of authorization 5. **E01**choose **Ủy quyền.** 6. **E07** show message-box to authorize 7. **E01** choose **Đồng ý** to confirm authorize 8. **E07** update information of person who is authorized **E15** 9. **E15** save information of authorization 10. **E07** show message-box authorization is success | | |
| **Post conditions** | All authorization of  **E01** is transfer for other to support work of **E01** | | |
| **Alternate flows** | **Case A7:** | | |
| **A7.1: Choose Hủy when confirm**   1. **E01** choose **Hủy** to cancle authorize 2. **E07** show authorization interface | | |
| **Exceptional flow** |  | | |

Table 38: Descrip usecase Ủy quyền

##### Cancle Authorization

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Hủy ủy quyền | **Usecase ID** | UC01.13.02 |
| **Description** | Allow Editor-in-chief (**E01**) to to cancle authorization by Article system (**E07**) | | |
| **Entities Involves** | * Editor-in-chief (**E01**) * Article system (**E07**) * Database intranet (**E15**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E07, E15** is running * **E01** must have a account **E07** * **E01** is login to **E07** * **E01** want to authorization * Authoruzation of **E01** is authorizing for other person and haven’t deadline | | |
| **Main flow** | 1. **E01** choose created article interface 2. **E01** choose **Hủy ủy quyền** 3. **E07** show Cancle Authorization interface 4. **E01** choose **Hủy ủy quyền** 5. **E07** message-box cancle article 6. **E01** choose **Đồng ý** to confirm cancle 7. **E07** save information to **E15** 8. **E15** saved information 9. **E07** show message Cancle Authorization is success | | |
| **Post conditions** | Authorization of other person is cancle | | |
| **Alternate flows** | **Case A6:** | | |
| **A6.1: Choose Hủy when confirm authorize**   1. **E01** choose **Hủy** 2. **E07** return created article interface | | |
| **Exceptional flow** |  | | |

Table 39: Descrip usecase Hủy ủy quyền

##### Delete articles

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Delete articles | **Usecase ID** | UC01.14 |
| **Description** | Allow Editor-in-chief (**E01**), Editor (**E02**), Reporter (**E03**) to delete articleby Article system (**E07**) | | |
| **Entities Involves** | * Editor-in-chief (**E01**) * Editor (**E02**) * Reporter (**E03**) * Article system (**E07**) * Database intranet (**E15**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E07, E15** is running * **E01, E02, E03** must have a account **E07** * **E01, E02, E03** login to **E07** * **E01, E02, E03** want delete article * Article is delete have to update in **E15** | | |
| **Main flow** | 1. **E01**, **E02**, **E03** choose created article interface 2. **E01**, **E02**, **E03** choose **Danh sách bài viết** 3. **E07** show artilce list 4. **E01**, **E02**, **E03** name of article that want to delete. 5. **E07** show detail content of article 6. **E01**, **E02**, **E03** choose **Xóa** 7. **E07** show message-box to confirm delete 8. **E01**, **E02**, **E03** choose **Đồng ý** to confirm delete 9. **E07** update information of article **E15** 10. **E15** saved information of article 11. **E07** show message-box delete article is success | | |
| **Post conditions** | Article is delete on **Danh sách bài viết** and saved **Danh sách bài viết đã xóa** | | |
| **Alternate flows** | **Case A8:** | | |
| **A8.1: Choose Hủy to confirm delete**   * + 1. **E01**, **E02**, **E03** choose **Hủy** to cancle confirm     2. **E07** show detail content of article | | |
| **Exceptional flow** |  | | |

Table 40: Descrip usecase Delete articles

##### Deleted article permanently

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Deleted article permanently | **Usecase ID** | UC01.15 |
| **Description** | Allow Editor-in-chief (**E01**), Editor (**E02**), Reporter (**E03**) to delete article by Article system (**E07**) | | |
| **Entities Involves** | * Editor-in-chief (**E01**) * Editor (**E02**) * Reporter (**E03**) * Article system (**E07**) * Database intranet (**E15**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E07, E15** is running * **E01, E02, E03** must have a account **E07** * **E01, E02, E03** login to **E07** * **E01, E02, E03** want to delete article * Article that need deleted article permanently in **E15** | | |
| **Main flow** | 1. **E01**, **E02**, **E03** choose create article interface 2. **E01**, **E02**, **E03** choose **Danh sách bài viết đã xóa** 3. **E07** show delete article list 4. **E01**, **E02**, **E03** choose name of deleted article permanently 5. **E07** show detail content of article 6. **E01**, **E02**, **E03** choose **Deleted article permanently** 7. **E07** show message-box to confirm 8. **E01**, **E02**, **E03** choose **Đồng ý** to confirm 9. **E07** update information to **E15** 10. **E15** saved information 11. **E07** show message-box delete article is success | | |
| **Post conditions** | Deleted article permanently to **Danh sách bài viết đã xóa** and **E07** | | |
| **Alternate flows** | **Case A8:** | | |
| **A8.1: Choose Hủy to confirm**   1. **E01**, **E02**, **E03** choose **Hủy** to confirm cancel 2. **E07** show detail content of article | | |
| **Exceptional flow** |  | | |

Table 41: Descrip usecase Deleted article permanently

##### Sort Article

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Sắp xếp tin | **Usecase ID** | UC01.16 |
| **Description** | Allow to Editor-in-chief (**E01**) to sort article that is uploaded to internet or intranet by Article system (**E07**) | | |
| **Entities Involves** | * Editor-in-chief (**E01**) * Article system (**E07**) * Database intranet (**E15**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E07, E15** is running * **E01** must have a account **E07** * **E01** login to **E07** * **E01** want to sort article that is uploaded to internet or intranet. * Article that need sort have to created and saved to **E15** | | |
| **Main flow** | 1. **E01** choose created article interface 2. **E01** choose **Danh sách bài viết đã đăng** 3. **E07** show article that is upload list 4. **E01** choose **Sắp xếp intranet** 5. **E07** sort article interface 6. **E01** sort articles that is uploaded on intranet 7. **E01** choose **Lưu** 8. **E07** show message-box to confirm 9. **E01** choose **Đồng ý** to confirm save 10. **E07** update information to **E15** 11. **E15** saved information of sort article 12. **E07** show message-box sort article is success | | |
| **Post conditions** | Posiion of article that is uploaded have to sort by position which editor-in-chief is designed. | | |
| **Alternate flows** | **Case A4:** | | |
| **A4.1: Sort position of article on internet**   1. **E01** choose **Sắp xếp intranet** 2. **E07** sort article interface 3. **E01** sort position of article on intranet 4. **E01** choose **Lưu** 5. **E07** show message-box to confirm 6. **E01** choose **Đồng ý** to confirm 7. **E07** update information **E15** 8. **E15**  saved information of sort position 9. **E07** show message-box sort position is success | | |
| **Case A9:** | | |
| **A9.1: Choose Hủy to cancle sort article**   1. **E01** choose **Hủy** to cancle sort 2. **E07** return original position | | |
| **Exceptional flow** |  | | |

Table 42: Descrip usecase Sắp xếp tin

##### Comment

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Comment | **Usecase ID** | UC01.17 |
| **Description** | Allow Editor-in-chief (**E01**), Editor (**E02**) and Reporter (**E03**) to comment by Article system (**E07**) | | |
| **Entities Involves** | * Editor-in-chief (**E01**) * Editor (**E02**) * Reporter (**E03**) * Article system (**E07**) * Database intranet (**E15**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E07, E15** is running * **E01, E02, E03** must have to account **E07** * **E01, E02, E03** login to **E07** * **E01, E02, E03** want to comment any article * Article have to created and saved to **E15** | | |
| **Main flow** | 1. **E01, E02, E03** choose created article interface 2. **E01, E02, E03** choose **Danh sách bài viết** 3. **E07** show article list 4. **E01, E02, E03** choose name of article that need comment 5. **E07** show comment interface 6. **E01, E02, E03** comment to comment area 7. **E01, E02, E03** choose **Lưu** 8. **E07** update information to **E15** 9. **E07** show message-box comment is success | | |
| **Post conditions** | **Information of article is updated comment to support work of E01**, **E02**, **E03** | | |
| **Alternate flows** | **Case A7:** | | |
| **A7.1: Choose Hủy when comment**   1. **E01, E02, E03** choose Hủy 2. **E07** return article list | | |
| **Exceptional flow** |  | | |

Table 43: Descrip usecase Comment

##### View catalog

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | View catalog | **Usecase ID** | UC01.18 |
| **Description** | Allow Catalog manager (**E04**) to view catalog through Article system (**E07**) | | |
| **Entities Involves** | * Catalog manager (**E04**) * Article system (**E07**) * Database intranet (**E15**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E07, E15** is running * **E04** must have a account **E07** * **E04** login to **E07** * **E04** want view catalog. * Catalog have to created and saved to **E15** | | |
| **Main flow** | 1. **E04** choose created article interface 2. **E04** choose **Danh mục** 3. **E07** catalog list interface | | |
| **Post conditions** | Catalog list have to showed | | |
| **Alternate flows** |  | | |
| **Exceptional flow** |  | | |

Table 44: Descrip usecase View catalog

##### Create catalog

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Create catalog | **Usecase ID** | UC01.19 |
| **Description** | Allow Catalog manager (**E04**) to create new catalog by Article system (**E07**) | | |
| **Entities Involves** | * Catalog manager (**E04**) * Article system (**E07**) * Database intranet (**E15**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E07, E15** is running * **E04** must have a account **E07** * **E04** login to **E07** * **E04** want to create new catalog . * Catalog havev’t to exist **E15** | | |
| **Main flow** | 1. **E04** choose create article interface 2. **E04** choose **Danh mục** 3. **E04** choose **Tạo** 4. **E07** show **Create catalog interface** 5. **E04** input information of catalog 6. **E04** choose **Lưu** 7. **E07** save information of catalog to **E15** 8. **E15** saved information of catalog 9. **E07** show message-box create catalog is success | | |
| **Post conditions** | Catalog have to created and saved to **E15** | | |
| **Alternate flows** | **Case A5:** | | |
| **A5.1: Information is not enough or invalid:**   1. **E04** input information (information is not enough) 2. **E04** choose **Lưu** 3. **E07** show message-box information is not enough and require add information 4. **E04** add information (enough) 5. **E04** choose **Lưu** 6. **E07** save information to **E15** 7. **E15** saved information 8. **E07** show message-box create new catalog is success | | |
| **Case A6:** | | |
| **A6.1: Choose Hủy create new catalog**   1. **E04** choose **Hủy** 2. **E07** show message-box to confirm cancle 3. **E04** choose **Đồng ý** 4. **E07** return to create catalog interface | | |
| **Exceptional flow** | **Case Ex01: Catalog is exissting** | | |
| 1. **E04** choose create article interface 2. **E04** choose **Danh mục** 3. **E04** choose **Tạo** 4. **E07** show interface of **Create catalog** 5. **E04** input information of catalog 6. **E04** choose **Lưu** 7. **E07** save information to **E15** 8. **E15** save information of catalog 9. **E07** show message-box catalog is existing | | |
| **Case Ex02: Server not found** | | |
| 1. **E04** choose create article interface 2. **E04** choose **Danh mục** 3. **E04** choose **Tạo** 4. **E07** show **Create catalog interface** 5. **E04** input information of catalog 6. **E04** choose **Lưu** 7. **E07** show message-box server not found and confirm cancle 8. **E04** choose **Đồng ý** to confirm cancle 9. **E07** return to **Create catalog interface** | | |
| **Case E03: Catalog manager chọn F5** | | |
| 1. **E04** choose create article interface 2. **E04** choose **Danh mục** 3. **E04** choose **Create catalog** 4. **E07** show **Create catalog interface** 5. **E04** input information of catalog 6. **E04** choose **F5** 7. **E07** show messge-box to confirm cancle 8. **E04** choose **Đồng ý** to confirm cancle 9. **E07** return to **Create catalog interface** | | |

Table 45: Descrip usecase Create catalog

##### Edit catalog

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Edit catalog | **Usecase ID** | UC01.20 |
| **Description** | Allow Catalog manager (**E04**) to edit information of catalog by Article system (**E07**) | | |
| **Entities Involves** | * Catalog manager (**E04**) * Article system (**E07**) * Database intranet (**E15**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E07, E15** is running * **E04** must have a account **E07** * **E04** login to **E07** * **E04** want edit catalog. * Catalog have to created and saved to **E15** | | |
| **Main flow** | 1. **E04** choose created article interface 2. **E04** choose **Danh mục** 3. **E07** show catalog list 4. **E04** choose name of catalog 5. **E07** show detail information of catalog 6. **E04** choose **Chỉnh sửa** 7. **E07** show edit catalog interface 8. **E04** Edit information 9. **E04** choose **Lưu** 10. **E07** update information to**E15** 11. **E15** saved information 12. **E07** hiển thị thông báo danh mục được chỉnh sửa thành công | | |
| **Post conditions** | Edit catalog is success | | |
| **Alternate flows** | **Case A8:** | | |
| **A8.1: Information is not enough or invalid**   1. **E04** edit information of catalog (not enough) 2. **E04** choose **Lưu** 3. **E07** show message information is not enough and requires add information 4. **E04** add information (enough) 5. **E04** choose **Lưu** 6. **E07** update information to **E15** 7. **E15** saved information of catalog 8. **E07** show message catalog is edited | | |
| **Case A9:** | | |
| **A9.1: Choose Hủy edit catalog:**   1. **E04** choose **Hủy** 2. **E07** show message to confirm cancle 3. **E04** choose **Đồng ý** to confirm cancle 4. **E07** return to catalog list interface | | |
| **Exceptional flow** |  | | |

Table 46: Descrip usecase Chỉnh sửa danh mục

##### Delete catalog

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Delete catalog | **Usecase ID** | UC01.18 |
| **Description** | Allow Catalog manager (**E04**) to delete catalog by Article system (**E07**) | | |
| **Entities Involves** | * Catalog manager (**E04**) * Article system (**E07**) * Database intranet (**E15**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E07, E15** is running * **E04** must have a account **E07** * **E04** login to **E07** * **E04** want to delete catalog * Catalog that need delete have to created and saved to **E15** | | |
| **Main flow** | 1. **E04** choose created article interface 2. **E04** choose **Danh mục** 3. **E07** show catalog list 4. **E04** choose name of catalog that neeed delete 5. **E04** choose **Xóa** 6. **E07** show message to confirm delete 7. **E04** choose **Đồng ý** to confirm delete 8. **E07** update information of catalog to **E15** 9. **E15** saved information 10. **E07** show message delete catalog is success | | |
| **Post conditions** | Catalog is deleted | | |
| **Alternate flows** | **Case A7:** | | |
| **A7.1: Hủy delete catalog**   1. **E04** choose **Hủy** to confirm cancle 2. **E07** return to catalog list | | |
| **Exceptional flow** |  | | |

Table 47: Descrip usecase Delete catalog

##### Sort catalog

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Sort catalog | **Usecase ID** | UC01.22 |
| **Description** | Allow Catalog manager (**E04**) to sort position of catalog by Article system (**E07**) | | |
| **Entities Involves** | * Catalog manager (**E04**) * Article system (**E07**) * Database intranet (**E15**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E07** is running * **E04** must have a account **E07** * **E04** login to **E07** * **E04** want to sort catalog * Catalog have to created and saved **E15** | | |
| **Main flow** | 1. **E04** choose created article interface 2. **E04** choose **Danh mục** 3. **E04** choose **Sắp xếp** 4. **E07** show **Sort catalog interface** 5. **E04** choose sort catalog by position that **E04** want 6. **E04** choose **Lưu** 7. **E07** show message to confirm 8. **E04** choose **Đồng ý** to confirm 9. **E07** update information to **E15** 10. **E15** saved information of catalog 11. **E07** show message sort catalog is success | | |
| **Post conditions** | Catalog is sorted by position that **E04** want | | |
| **Alternate flows** | **Case A8:** | | |
| **A8.1: Hủy sort catalog:**   1. **E04** choose **Hủy** 2. **E07** show message to confirm cancle 3. **E04** choose **Đồng ý** to confirm cancle 4. **E07** reutnr to catalog list | | |
| **Exceptional flow** |  | | |

Table 48: Descrip usecase Sort catalog

#### Dictionary management system

##### Search

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Search | **Usecase ID** | UC02.01 |
| **Description** | Allow Answer Department (**E05**) to search question in question list of Dictionary management system (**E10**) | | |
| **Entities Involves** | * Answer Department (**E05**) * Dictionary management system (**E10**) * Database intranet (**E15**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E10, E15** is running * **E05** must have a account **E10** * **E05** login to **E10** * **E05** want to search question * Question have to saved **E15** | | |
| **Main flow** | 1. **E05** question list interface 2. **E10** show question list 3. **E05** input keyword 4. **E05** choose **Search** or Enter 5. **E10** show results | | |
| **Post conditions** | Show result that have content same keyword **E05** | | |
| **Alternate flows** | **Case A5 :** | | |
| **A5.1: Question that need search not found.**   * + 1. **E05** press **Enter** to search     2. **E10** show message question not found | | |
| **Exceptional flow** |  | | |

Table 49: Descrip usecase Search

##### View question detail

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | View question detail | **Usecase ID** | UC02.02 |
| **Description** | Allow Answer Department (**E05**) to view detail questionby Dictionary management system (**E10**) | | |
| **Entities Involves** | * Answer Department (**E05**) * Dictionary management system (**E10**) * Database intranet (**E15**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E10, E15** is running * **E05** must have a account **E10** * **E05** login to **E10** * **E05** want to view detail question * Question have to saved to **E15** | | |
| **Main flow** | 1. **E05** login to Dictionary management system 2. **E10** show question list 3. **E05** choose question that need view detail 4. **E10** hiển thị nội dung câu hỏi được chọn. | | |
| **Post conditions** | Content of question is showed | | |
| **Alternate flows** |  | | |
| **Exceptional flow** |  | | |

Table 50: Descrip usecase View question detail

##### Send Mail

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Send Mail | **Usecase ID** | UC02.03 |
| **Description** | Allow Answer Department (**E05**) to send mail to user by Dictionary management system (**E10**) | | |
| **Entities Involves** | * Answer Department (**E05**) * Dictionary management system (**E10**) * Mail Server (**E14)** * Data intranet (**E15)** | | |
| **Business rules** |  | | |
| **Preconditions** | * **E10, E15** is running * **E05** must have a account **E10** * **E05** login to **E10** * **E05** want to send mail to user | | |
| **Main flow** | 1. **E05** login to Dictionary management system 2. **E10** show question not replied list 3. **E05** select a question 4. **E10** show answer interface 5. **E05** reply . 6. **E05** choose **Gửi** 7. **E10** save answer to **E15** 8. **E15** saved answer 9. **E10** send answer to **E14** 10. **E14** send answer to user 11. **E10** show message send mail is success | | |
| **Post conditions** | Answer is created, send to user and saved **Danh sách đã trả lời** to support work of **E05**. | | |
| **Alternate flows** | **Case A5:** | | |
| **A5.1 Information is not enough**   1. **E05** don’t input answer 2. **E05** send mail**.** 3. **E10** show message information is not enough and require add information | | |
| **Case A6:** | | |
| **A6.1: Chọn Lưu tạm**   1. **E05** choose **Lưu.** 2. **E10** save question to **E15** 3. **E15** saved question to **Danh sách lưu tạm** 4. **E10** show message save question is success | | |
| **Exceptional flow** |  | | |

Table 51: Descrip usecase Create question

##### Delete question

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Delete question | **Usecase ID** | UC02.04.01 |
| **Description** | Allow Answer Department (**E05**) to delete question ton question list by Dictionary management system (**E10**). | | |
| **Entities Involves** | * Answer Department (**E05**) * Dictionary management system (**E10**) * Data intranet (**E15)** | | |
| **Business rules** |  | | |
| **Preconditions** | * **E10, E15** đã is running * **E05** must have a account **E10** * **E05** login to **E10** * **E05** want to delete question * Question have to created and saved to**E15** | | |
| **Main flow** | 1. **E05** login to Dictionary management system 2. **E05** choose kind of question list (**Danh sách chưa trả lời , Danh sách lưu, Danh sách đã trả lời, Bộ từ điển**). 3. **E10** show question list 4. **E05** choose question 5. **E10** show question content 6. **E05** choose **Xóa** 7. **E10** send require delete question to **E15** 8. **E15** execute delete question 9. **E10** show message delete question is success | | |
| **Post conditions** | Question is deleted and saved to **Danh sách đã xóa** | | |
| **Alternate flows** |  | | |
| **Exceptional flow** |  | | |

Table 52: Descrip usecase Delete question

##### Delete more question

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Delete more question | **Usecase ID** | UC02.04.02 |
| **Description** | Allow Answer Department (**E05**) to delete more question on question list by Dictionary management system (**E10**). | | |
| **Entities Involves** | * Answer Department (**E05**) * Dictionary management system (**E10**) * Data intranet (**E15)** | | |
| **Business rules** |  | | |
| **Preconditions** | * **E10, E15** is running * **E05** must have a account **E10** * **E05** login to **E10** * **E05** want tô delete question * Question have to created and saved to **E15** | | |
| **Main flow** | 1. **E05** login to Dictionary management system 2. **E05** choose kind of question list (**Danh sách chưa trả lời , Danh sách lưu, Danh sách đã trả lời, Bộ từ điển**). 3. **E10** show question list 4. **E05** click checkbox before delete questions 5. **E05** choose **Xóa** 6. **E10** message to confirm delete questions 7. **E05** choose **Đồng ý** to confirm delete questions 8. **E10** send require to delete questions **E15** 9. **E15** execute delete questions 10. **E10** show message delete questions is success | | |
| **Post conditions** | Question have to deleted and sent to **Danh sách đã xóa** | | |
| **Alternate flows** |  | | |
| **Exceptional flow** |  | | |

Table 53: Descrip usecase Delete more question

##### Restore question

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Restore question | **Usecase ID** | UC02.05.01 |
| **Description** | Allow Answer Department (**E05**) to restore question on question list by Dictionary management system (**E10**). | | |
| **Entities Involves** | * Answer Department (**E05**) * Dictionary management system (**E10**) * Data intranet (**E15)** | | |
| **Business rules** |  | | |
| **Preconditions** | * **E10, E15** is running * **E05** must have a account **E10** * **E05** login to **E10** * **E05** want restore question * Question is restored and return to original list | | |
| **Main flow** | 1. **E05** login to Dictionary management system 2. **E05** choose **Danh sách đã xóa** (delete question list) 3. **E10** show deleted-question list 4. **E05** choose question that want restore 5. **E05** choose **Khôi phục** 6. **E10** send requires restore question to **E15** 7. **E15** execute restore question to original list 8. **E10** show message restored question is success | | |
| **Post conditions** | Question is restored and moved to original list | | |
| **Alternate flows** |  | | |
| **Exceptional flow** |  | | |

Table 54: Descrip usecase Restore question

##### Restore more question

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Restore more question | **Usecase ID** | UC02.05.01 |
| **Description** | Allow Answer Department (**E05**) to on question list by Dictionary management system (**E10**). | | |
| **Entities Involves** | * Answer Department (**E05**) * Dictionary management system (**E10**) * Data intranet (**E15)** | | |
| **Business rules** |  | | |
| **Preconditions** | * **E10, E15** is running * **E05** must have a account **E10** * **E05** login to **E10** * **E05** want to restore question * Question havet o created, moved to **Danh sách đã xóa** | | |
| **Main flow** | 1. **E05** login to Dictionary management system 2. **E05** choose **Danh sách đã xóa** (deleted question list) 3. **E10** show deleted question list 4. **E05** choose checkbox before restore questions 5. **E05** choose **Khôi phục** 6. **E10** show message to confirm 7. **E05** choose **Đồng ý** to confirm 8. **E10** send requires to restore question to **E15** 9. **E15** execute restore questions and returnal questions to original list 10. **E10** show message restored questions is success | | |
| **Post conditions** | Questions is restored and return to original list | | |
| **Alternate flows** |  | | |
| **Exceptional flow** |  | | |

Table 55: Descrip usecase Restore more question

##### Insert question into dict

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Insert question into dict | **Usecase ID** | UC02.06 |
| **Description** | Allow Answer Department (**E05**) to insert question to dictionaryby Dictionary management system (**E10**) | | |
| **Entities Involves** | * Answer Department (**E05**) * Dictionary management system (**E10**) * Database intranet (**E15**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E10, E15** is running * **E05** must have a account **E10** * **E05** login to **E10** * Question that need insert have to created and saved to **E15** | | |
| **Main flow** | 1. **E05** choose **Danh sách đã trả lời** 2. **E10** show **Danh sách đã trả lời**(replied question list). 3. **E05** choose a question 4. **E10** show detail of question 5. **E05** choose **Đưa câu hỏi vào từ điển.** 6. **E10** send requires insert question to dictionary to **E15** 7. **E15** saved information of question 8. **E10** update index 9. **E10** show message insertd question is success | | |
| **Post conditions** | Question is insertd to dictionary | | |
| **Alternate flows** |  | | |
| **Exceptional flow** |  | | |

Table 56: Descrip usecase Insert question into dict

##### Update question

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Update question | **Usecase ID** | UC02.07 |
| **Description** | AllowAnswer Department (**E05**) to update questionby Dictionary management system (**E10**) | | |
| **Entities Involves** | * Answer Department (**E05**) * Dictionary management system (**E10**) * Database intranet (**E15**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E10, E15** is running * **E05** must have a account **E10** * **E05** login to **E10** * Question have to created and saved to **E15** | | |
| **Main flow** | 1. **E05** choose **Danh sách đã trả lời** 2. **E10** show question list 3. **E05** choose question 4. **E10** show detail question 5. **E05** choose **Chỉnh sửa.** 6. **E10** show edit question interface 7. **E05** show question and answer 8. **E05** choose **Lưu** 9. **E10** send requires update question to **E15** 10. **E15** update information of question 11. **E10** update index 12. **E10** show message updated question is success | | |
| **Post conditions** | Question is updated | | |
| **Alternate flows** |  | | |
| **Exceptional flow** |  | | |

Table 57: Descrip usecase Update question

##### Upload-dict

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Upload-dict | **Usecase ID** | UC02.08.01 |
| **Description** | Allow Answer Department (**E05**) to upload question in dictionary to internet by Dictionary management system (**E10**) | | |
| **Entities Involves** | * Answer Department (**E05**) * Dictionary management system (**E10**) * Database intranet (**E15**) * Database internet (**E16**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E10, E15, E16** is running * **E05** must have a account **E10** * **E05** login to **E10** * **E05** have to admin * **E05** want upload-dict * Question that need upload to internet have to saved to **E15** | | |
| **Main flow** | 1. **E05** choose **Bộ từ điển** 2. **E10** show available question list 3. **E05** choose question 4. **E10** show content of question 5. **E05** choose **Đăng câu hỏi** 6. **E10** send requires to save content to **E15,** **E16** 7. **E15, E16** saved information of question 8. **E10** update index 9. **E10** show message upload question is success | | |
| **Post conditions** | Question is uploaded | | |
| **Alternate flows** |  | | |
| **Exceptional flow** | **Case Ex01: Upload question is fail** | | |
| 1. **E05** choose **Bộ từ điển** 2. **E10** show available question list 3. **E05** choose checkbox before upload question to internet 4. **E05** choose **Đăng câu hỏi** 5. **E10** show message to confirm 6. **E05** choose **Đồng ý** to confirm upload 7. **E10** send requires to save question to **E15,** **E16** 8. **E15, E16** save information of system 9. **E10** update index 10. **E10** message upload question is fail | | |

Table 58: Descrip usecase Upload-dict

##### Upload-dict more

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Upload-dict more | **Usecase ID** | UC02.08.02 |
| **Description** | Allow Answer Department (**E05**) to upload a lots question by Dictionary management system (**E10**) | | |
| **Entities Involves** | * Answer Department (**E05**) * Dictionary management system (**E10**) * Database intranet (**E15**) * Database internet (**E16**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E10, E15, E16** is running * **E05** must have a account **E10** * **E05** login **E10** * **E05** have to admin * **E05** want to upload a lots question * Questions have to created and saved **E15** | | |
| **Main flow** | 1. **E05** choose **Bộ từ điển** 2. **E10** show available question list 3. **E05** choose checkbox before upload questions to internet 4. **E05** choose **Đăng câu hỏi** 5. **E10** show message to confirm 6. **E05** choose **Đồng ý** to confirm upload 7. **E10** send requires to save question to **E15,** **E16** 8. **E15, E16** save information of questions 9. **E10** update index 10. **E10** message upload questions is success | | |
| **Post conditions** | Questions is upload | | |
| **Alternate flows** | **Case A6.1.** | | |
| **A6.1: Choose Hủy**   * 1. **E05** choose **Hủy** to cancle upload questions   2. **E10** return to available question list | | |
| **Exceptional flow** | **Case Ex01: Upload question is fail** | | |
| 1. **E05** choose **Bộ từ điển** 2. **E10** show available question list 3. **E05** choose checkbox before upload questions to internet 4. **E05** choose **Đăng câu hỏi** 5. **E10** show message to confirm 6. **E05** choose **Đồng ý** to confirm upload 7. **E10** send requires to save question to **E15,** **E16** 8. **E15, E16** save information of questions 9. **E10** update index 10. **E10** message upload questions is fail | | |

Table 59: Descrip usecase Upload-dict more

##### Drop-dict

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Drop-dict | **Usecase ID** | UC02.09.01 |
| **Description** | Allow Answer Department (**E05**) to drop question on dictionary by Dictionary management system (**E10**) | | |
| **Entities Involves** | * Answer Department (**E05**) * Dictionary management system (**E10**) * Database intranet (**E15**) * Database internet (**E16**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E10, E15, E16** is running * **E05** must have a account **E10** * **E05** login to **E10** * **E05** have to admin * **E05** want to drop question * Question have to uploaded on internet | | |
| **Main flow** | 1. **E05** choose **Bộ từ điển** 2. **E05** choose **Đã đăng** (recent question list) 3. **E10** show recent question list 4. **E05** choose question that need drop on internet 5. **E05** choose **Hạ câu hỏi.** 6. **E10** update question to **E15, E16** 7. **E15, E16** update information of question 8. **E10** update index 9. **E10** show message drop question is success | | |
| **Post conditions** | Question is droped | | |
| **Alternate flows** |  | | |
| **Exceptional flow** | **Case Ex01: Drop question is fail** | | |
| 1. **E05** choose **Bộ từ điển** 2. **E05** choose **Đã đăng** (recent question list) 3. **E10** show recent question list 4. **E05** choose question that need drop on internet 5. **E05** choose **Hạ câu hỏi.** 6. **E10** update question to **E15, E16** 7. **E15, E16** update information of question 8. **E10** update index 9. **E10** show message drop question is fail | | |

Table 60: Descrip usecase Drop-dict

##### Drop-dict more

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Drop-dict more | **Usecase ID** | UC02.09.02 |
| **Description** | Allow Answer Department (**E05**)to drop a lot of question by Dictionary management system (**E10**) | | |
| **Entities Involves** | * Answer Department (**E05**) * Dictionary management system (**E10**) * Database intranet (**E15**) * Database internet (**E16**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E10, E15, E16** is running * **E05** must have a account **E10** * **E05** login to **E10** * **E05** have to admin * **E05** want to drop a lot of question * Question that need drop have to uploaded on internet | | |
| **Main flow** | 1. **E05** choose **Bộ từ điển** 2. **E05** choose **Đã đăng**  (recent question list) 3. **E10** show recent list 4. **E05** choose checkbox before drop question on internet 5. **E05** choose **Hạ câu hỏi.** 6. **E10** show message to confirm drop question 7. **E05** choose **Đồng ý** to confirm drop question 8. **E10** send require update information of questions **E15, E16** 9. **E15, E16** updated information of questions 10. **E10** show message drop question is success | | |
| **Post conditions** | Question is droped | | |
| **Alternate flows** | **Case A7:** | | |
| **A7.1: Choose Hủy**   1. **E05** choose **Hủy** to cancle drop question 2. **E10** return to recent question list | | |
| **Exceptional flow** | **Case Ex01: Drop a lots question is fail** | | |
| 1. **E05** choose **Bộ từ điển** 2. **E05** choose **Đã đăng** (recent question list) 3. **E10** show recent question list 4. **E05** choose checkbox before drop question on internet 5. **E05** choose **Hạ câu hỏi.** 6. **E10** show message to confirm 7. **E05** choose **Đồng** to confirm drop question 8. **E10** send require update information of questions **E15, E16** 9. **E15, E16** updated information of questions 10. **E10** show message drop question is fail | | |

Table 61: Descrip usecase Drop-dict more

##### Create index

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Create index | **Usecase ID** | UC02.10 |
| **Description** | Allow Answer Department (**E05**) to create index by Dictionary management system (**E10**) | | |
| **Entities Involves** | * Answer Department (**E05**) * Dictionary management system (**E10**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E10** đã is running * **E05** must have a account **E10** * **E05** login to **E10** * **E05** have to admin * **E05** want to create index | | |
| **Main flow** | 1. **E05** login to system 2. **E05** choose **Create index** 3. **E10** execute create index 4. **E10** show messge create index is success | | |
| **Post conditions** | Index file is created | | |
| **Alternate flows** |  | | |
| **Exceptional flow** |  | | |

Table 62: Descrip usecase Create index

##### Create question

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Create question. | **Usecase ID** | UC02.11 |
| **Description** | Allow Answer Department (**E05**) to create question and answer by Dictionary management system (**E10**) and saved this question to (**E15)** | | |
| **Entities Involves** | * Answer Department (**E05**) * Dictionary management system (**E10**) * Data intranet (**E15)** | | |
| **Business rules** |  | | |
| **Preconditions** | * **E10, E15** is running * **E05** must have a account **E10** * **E05** login to **E10** * **E05** want to create question | | |
| **Main flow** | 1. **E05** choose Dictionary management system 2. **E05** choose **create question**. 3. **E10** show create question interface. 4. **E05** input content of question and answer 5. **E05** choose **Lưu** 6. **E10** send require to save question to **E15** 7. **E15** execute save question 8. **E10** show message create question is success | | |
| **Post conditions** | Câu hỏi và câu trả lời của câu hỏi được tạo và lưu vào danh sách có sẵn trong bộ từ điển thành công.  Question have to created and insertd to dictionary | | |
| **Alternate flows** |  | | |
| **Exceptional flow** |  | | |

Table 63: Descrip usecase Taọ câu hỏi

##### User config

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | User config | **Usecase ID** | UC02.12 |
| **Description** | Allow Answer Department (**E05**) to configuratein system management by Dictionary management system (**E10**) | | |
| **Entities Involves** | * Answer Department (**E05**) * Dictionary management system (**E10**) * Data intranet (**E15**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E10, E15** is running * **E05** must have a account **E10** * **E05** login to **E10** * **E05** have to admin * **E05** want to configurate | | |
| **Main flow** | 1. **E05** go to configuration interface 2. **E10** show configuration interface 3. **E05** choose **User config.** 4. **E10** show users configuration interface 5. **E05** choose user who need configurate 6. **E05** edit information 7. **E05** choose **Lưu**. 8. **E10** save information of user to **E15** 9. **E15** saved information 10. **E10** show message configuration is success | | |
| **Post conditions** | Configuration is changed | | |
| **Alternate flows** | **Case A6** | | |
| **A6.1: Information is not enough**   * + 1. **E05** don’t enter information     2. **E05** choose **Lưu**     3. **E10** show message require input information is enough | | |
| **Exceptional flow** |  | | |

Table 64: Descrip usecase User config

##### Mail config

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Mail config | **Usecase ID** | UC02.13 |
| **Description** | Allow Answer Department (**E05**) to mail configurate email in system mamagement by Dictionary management system (**E10**) | | |
| **Entities Involves** | * Answer Department (**E05**) * Dictionary management system (**E10**) * Data intranet (**E15**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E10** đã is running * **E05** must have a account **E10** * **E05** login to **E10** * **E05** have to admin * **E05** want to configurate email system | | |
| **Main flow** | 1. **E05** go to configuration interface 2. **E10** show configuration interface 3. **E05** choose **Mail config.** 4. **E10** show email configuration interface. 5. **E05** input information of email system 6. **E05** choose **Lưu.** 7. **E10** save information of email system to **E15** 8. **E15** saved information 9. **E10** show message configuration is success | | |
| **Post conditions** | Email configuration is changed | | |
| **Alternate flows** | **Case A5** | | |
| **A5.1: Information is not enough**   1. **E05** don’t input information 2. **E05** choose **Lưu** 3. **E10** show message require input information is enough | | |
| **Exceptional flow** |  | | |

Table 65: Descrip usecase Mail config

##### System config

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | System config | **Usecase ID** | UC02.14 |
| **Description** | Allow Answer Department (**E05**) to configurate system by Dictionary management system (**E15**) | | |
| **Entities Involves** | * Answer Department (**E05**) * Dictionary management system (**E10**) * Data intranet (**E15**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E10, E15** is running * **E05** must have a account **E10** * **E05** login to**E10** * **E05** have to admin * **E05** want to configurate system | | |
| **Main flow** | 1. **E05** go to configuration interface 2. **E10** show configuration interface 3. **E05** choose **System config.** 4. **E10** show system configuration interface 5. **E05** input information of system 6. **E05** choose **Lưu** 7. **E10** save information of system to **E15** 8. **E15** saved information 9. **E10** show message configuration is success | | |
| **Post conditions** | System Configuration is changed | | |
| **Alternate flows** | **Case A5:** | | |
| **A5.1: Lack of configuration information**   1. **E05** input information is not enough 2. **E05** choose **Lưu** 3. **E10** show message require input information is not enough | | |
| **Exceptional flow** |  | | |

Table 66: Descrip usecase System config

##### Help

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Help | **Usecase ID** | UC02.15 |
| **Description** | Allow Answer Department (**E05**) to see help by Dictionary management system (**E10**). | | |
| **Entities Involves** | * Answer Department (**E05**) * Dictionary management system (**E10**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E10** is running * **E05** must have a account **E10**. * **E05** login to **E10** * **E05** want to see help | | |
| **Main flow** | 1. **E05** login to system 2. **E05** choose **Help**. 3. **E10** show help of Dictionary management system. | | |
| **Post conditions** | Help page is showed | | |
| **Alternate flows** |  | | |
| **Exceptional flow** |  | | |

Table 67: Descrip usecase Help

##### Setting Paging

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Setting Paging | **Usecase ID** | UC02.16 |
| **Description** | Allow Answer Department (**E05**) to setting paging of each list by Dictionary management system (**E10**). | | |
| **Entities Involves** | * Answer Department (**E05**) * Dictionary management system (**E10**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E10** is running * **E05** must have a account **E10**. * **E05** login to **E10** * **E05** want to setting paging | | |
| **Main flow** | 1. **E05** login to Dictionary management system 2. **E05** choose icon of setting 3. **E10** show popup to setting paging 4. **E05** change setting paging 5. **E05** choose **Lưu**. 6. **E10** return to list | | |
| **Post conditions** | Execute setting paging is success | | |
| **Alternate flows** |  | | |
| **Exceptional flow** |  | | |

Table 68: Descrip usecase Thay đổi phân trang

#### Dictionary display system

##### Search question

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Search question | **Usecase ID** | UC03.01 |
| **Description** | Allow User (**E06**) to search question in any question list by Dictionary display system (**E11**). | | |
| **Entities Involves** | * User (**E06**) * Dictionary display system (**E11**) * Database internet (**E16**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E11, E16** is running * **E06** want to search question * Question that need search have to saved to **E16** | | |
| **Main flow** | 1. **E06** login to Dictionary display system 2. **E11** show any question list 3. **E06** input leyword 4. **E11** choose **Search** 5. **E11** send requires to search to **E16** 6. **E16** return result to **E11** 7. **E11** show results | | |
| **Post conditions** | Question that have content is same keyword was showed | | |
| **Alternate flows** | **Case A7:** | | |
| **A7.1: Question not found**   1. **E06** show message question not found | | |
| **Exceptional flow** |  | | |

Table 69: Descrip usecase Search question

##### View question detail

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | View question detail | **Usecase ID** | UC03.02 |
| **Description** | Allow User (**E06**) to view detail of question by Dictionary display system (**E11**). | | |
| **Entities Involves** | * User (**E06**) * Dictionary display system (**E11**) * Database internet (**E16**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E11** is running * **E06** want to show detail of question * Question have to created and saved to **E16** | | |
| **Main flow** | 1. **E06** go to Dictionary display system 2. **E11** show question list 3. **E06** choose a question. 4. **E11** show detail content of question | | |
| **Post conditions** | Content of question is showed | | |
| **Alternate flows** |  | | |
| **Exceptional flow** |  | | |

Table 70: Descrip usecase Xem chi tiết câu hỏi

##### Create question

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Create question | **Usecase ID** | UC03.03 |
| **Description** | Allow User (**E06**) to create question by Dictionary display system (**E11)** | | |
| **Entities Involves** | * User (**E06**) * Dictionary display system (**E11**) * Dictionary management system (**E10**) * Database intranet (**E15**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E11, E15** is running * Email of **E06** is exiting * **E06** want create question. | | |
| **Main flows** | 1. **E06** go to Dictionary display system 2. **E11** question list and create question area 3. **E06** input information of question 4. **E06** choose **Gửi** 5. **E11** send question to **E10** 6. **E10** save question to **E15** 7. **E15** saved question 8. **E11** show message send question is success | | |
| **Post conditions** | Question is sent to **E15** support for **E05** can track and answer **E06**. | | |
| **Alternate flows** | **Case A3:** | | |
| **A3.1: Information is fail**   1. **E06** go to Dictionary display system 2. **E11** question list and create question area 3. **E06** input information of question 4. **E06** choose **Gửi** 5. **E11** send question to **E10** 6. **E10** save question to **E15** 7. **E15** saved question 8. show message send question is fail | | |
| **Exceptional flow** |  | | |

Table 71: Descrip usecase Create question

##### Setting Paging

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Thay đổi phân trang | **Usecase ID** | UC03.04 |
| **Description** | Allow users (**E06**) to setting paging on Dictionary Display system (**E11**) | | |
| **Entities Involves** | * User (**E06**) * Dictionary display system (**E11**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E11** is running * **E06** want to setting paging | | |
| **Main flow** | 1. **E06** go to Dictionary display system 2. **E05** choose **Cấu hình** 3. **E10** show popup setting paging 4. **E05** input number of record and maximum paging 5. **E05** choose **Lưu** 6. **E10** page is changed | | |
| **Post conditions** | Configuration paging is changed | | |
| **Alternate flows** |  | | |
| **Exceptional flow** |  | | |

Table 72: Descrip usecase Thay đổi phân trang

#### Dictionary management system (andrioid app)

##### Search question on android app

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Search question on android app | **Usecase ID** | UC04.01 |
| **Description** | Allow Answer Department (**E05**) to search question by Dictionary management system (andrioid app) (**E12**) | | |
| **Entities Involves** | * Answer Department (**E05**) * Dictionary management system (**E10**) * Dictionary management system (andrioid app) (**E12**) * Database intranet (**E15**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E10, E12, E15** is running * **E05** must have a account **E12** * **E05** login to **E12** * **E05** want to search question * Question have to created and saved to **E16** | | |
| **Main flow** | 1. **E05** go to question list interface 2. **E12** show question list 3. **E05** input keyword 4. **E05** choose **Search.** 5. **E12** send keyword to **E10** by web service 6. **E12** show results when receive results from **E10** | | |
| **Post conditions** | Câu hỏi cần search được hiển thị | | |
| **Alternate flows** | **Case A3 :** | | |
| **A3.1: Câu hỏi cần search không tồn tại.**   * + 1. **E05** choose **Search**     2. **E12** send keyword to **E10** by web service     3. **E12** show empty list | | |
| **Exceptional flow** |  | | |

Table 73: Descrip usecase Tìm kiếm trên android app

##### View question detail trên android app

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | View question detail trên android app | **Usecase ID** | UC04.02 |
| **Description** | Allow Answer Department (**E05**) to view detail question by Dictionary management system (andrioid app) (**E12**). | | |
| **Entities Involves** | * Answer Department (**E05**) * Dictionary management system (andrioid app) (**E12**) * Dictionary management system (**E10**) * Database intranet (**E15**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E10, E12, E15** is running * **E05** must have a account **E12** * **E05** login to **E12** * **E05** want to view question detail * Question have to created and saved to **E15** | | |
| **Main flow** | 1. **E05** go to question list interface 2. **E12** send require get dictionary to **E15** by web service on **E10** 3. **E12** show question list 4. **E05** choose question 5. **E12** show content of question | | |
| **Post conditions** | Content of question is showed | | |
| **Alternate flows** |  | | |
| **Exceptional flow** |  | | |

Table 74: Descrip usecase View question detail trên android app

##### Send mail trên android app

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Send mail trên android app | **Usecase ID** | UC04.03 |
| **Description** | Allow Answer Department (**E05**) to send mail on Dictionary management system (andrioid app) (**E12**) và send mail to user. | | |
| **Entities Involves** | * Answer Department (**E05**) * Dictionary management system (andrioid app) (**E12**) * Dictionary management system (**E10**) * Database intranet (**E15**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E10, E12, E15** is running * **E05** must have a account **E12** * **E05** login to **E12** * **E05** want to send mail | | |
| **Main flow** | 1. **E05** go to question list interface 2. **E12** send require get dictionary to **E15** by web service on **E10** 3. **E12** show list question 4. **E05** choose a question 5. **E12** show answer interface 6. **E05** choose **Gửi** 7. **E12** send question and answer **E10** by webservice to send requires Send Mail and saved to **E10** 8. **E10** update content of question **E15** 9. **E15** updated information 10. **E12** show message send mail is success | | |
| **Post conditions** | Answer is created and mail is sent | | |
| **Alternate flows** | **Case A6:** | | |
| **A6.1 Save question**   1. **E05** choose **Lưu.** 2. **E12** update content of question to **E15** by **E10** 3. **E15** update information 4. **E12** show message save question is success. | | |
| **Exceptional flow** |  | | |

Table 75: Descrip usecase Send mail trên android app

##### Delete question on android app

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Delete question on android app | **Usecase ID** | UC04.04 |
| **Description** | Allow Answer Department (**E05**) to delete question in list question by Dictionary management system (andrioid app) (**E12**) and Dictionary management system (**E10**). | | |
| **Entities Involves** | * Answer Department (**E05**) * Dictionary management system (**E10**) * Dictionary management system (andrioid app) (**E12**) * Data intranet (**E15)** | | |
| **Business rules** |  | | |
| **Preconditions** | * **E10, E12, E15** is running * **E05** must have a account to login to **E12** * **E05** login to **E12** * **E05** want to delete question * Question have to created and saved **E15** | | |
| **Main flow** | 1. **E05** login to **E12** 2. **E05** choose question list (**Danh sách chưa trả lời, Danh sách lưu tạm,Danh sách đã trả lời, bộ từ điển**). 3. **E12** send require get question list to **E10** by web service 4. **E12** show question list 5. **E05** choose a question 6. **E12** show detail question 7. **E05** choose **Xóa** 8. **E12** send require delete question to **E15** by **E10** 9. **E15** execute delete question 10. **E12** show message detele question is success | | |
| **Post conditions** | Question is deleted | | |
| **Alternate flows** |  | | |
| **Exceptional flow** |  | | |

Table 76: Descrip usecase Delete question trên android app

##### Restore android on android app

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Restore question android app | **Usecase ID** | UC04.05 |
| **Description** | Allow Answer Department (**E05**) to restore question in question list by Dictionary management system (andrioid app) (**E12**) and Dictionary management system (**E10**). | | |
| **Entities Involves** | * Answer Department (**E05**) * Dictionary management system (**E10**) * Data intranet (**E15)** | | |
| **Business rules** |  | | |
| **Preconditions** | * **E10, E15** is running * **E05** must have a account **E10** * **E05** login to **E10** * **E05** want to restore question * Question have to created and moved to **Danh sách đã xóa** | | |
| **Main flow** | 1. **E05** login to Dictionary management system 2. **E05** choose **Danh sách đã xóa** 3. **E10** show question list 4. **E05** chọn vào câu hỏi muốn khôi phục 5. **E05** choose **Khôi phục** 6. **E10** send requires to restore question to **E15** 7. **E15** execute restore question 8. **E10** show messge restore question is success | | |
| **Post conditions** | Question is restored | | |
| **Alternate flows** |  | | |
| **Exceptional flow** |  | | |

Table 77: Descrip usecase Khôi phục câu hỏi trên android app

##### Insert question into dictionary on android app

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Insert question into dictionary on android app | **Usecase ID** | UC04.04 |
| **Description** | Allow Answer Department (**E05**) to insert question to dictionary by Dictionary management system (andrioid app) (**E12**) | | |
| **Entities Involves** | * Answer Department (**E05**) * Dictionary management system (**E10**) * Dictionary management system (andrioid app) (**E12**) * Database intranet (**E15**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E10, E12, E15** is running * **E05** must have a account to login **E12** * **E05** login to **E12** * **E05** want to insert question to dictionary * Question have to created and saved to **E15** | | |
| **Main flow** | 1. **E05** choose **Danh sách đã trả lời** 2. **E12** send require get question list **E10** by web service 3. **E12** show question list. 4. **E05** choose a question 5. **E05** choose **Đưa vào bộ từ điển** 6. **E12** send require insert question to dictionary to **E15** by webservice on **E10** 7. **E15** update information of question 8. **E12** show message insert question to dictionary is success | | |
| **Post conditions** | Question is inserted to dictionary | | |
| **Alternate flows** |  | | |
| **Exceptional flow** |  | | |

Table 78: Descrip usecase Insert question into dict trên android app

##### Update question on android app

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Update question on android app | **Usecase ID** | UC04.07 |
| **Description** | Allow Answer Department (**E05**) to update question on Dictionary management system (andrioid app) (**E12**) by Dictionary management system (**E10**) | | |
| **Entities Involves** | * Answer Department (**E05**) * Dictionary management system (**E10**) * Dictionary management system (andrioid app) (**E12**) * Database intranet (**E15**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E10, E12, E15** is running * **E05** must have a account to sign in **E12** * **E05** login to **E12** * Question have to created and saved to **E15** | | |
| **Main flow** | 1. **E05** go to interface of **E12** 2. **E12** send require get question list **E10** by web service 3. **E12** show question list 4. **E05** choose question 5. **E12** show detail question 6. **E05** choose **Chỉnh sửa.** 7. **E12** show edit question interface 8. **E05** edit information of question 9. **E05** choose **Lưu** 10. **E12** send requires save content of question to **E15** by **E10** 11. **E15** save content of question 12. **E12** show message edit question is success. | | |
| **Post conditions** | Question is edited | | |
| **Alternate flows** |  | | |
| **Exceptional flow** |  | | |

Table 79: Descrip usecase Update question trên android app

##### Upload-dict trên android app

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Upload-dict on android app | **Usecase ID** | UC04.08 |
| **Description** | Allow Answer Department (**E05**) to upload question to internet by Dictionary management system (andrioid app) (**E12** and Dictionary management system (**E10**) | | |
| **Entities Involves** | * Answer Department (**E05**) * Dictionary management system (**E10**) * Dictionary management system (andrioid app) (**E12**) * Database intranet (**E15**) * Database internet (**E16**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E10, E12, E15, E16** is running * **E05** must have a account **E12** * **E05** sign in **E12** * **E05** have to admin * **E05** want to upload question on internet * Question don’t have on internet, created and saved to **E15** | | |
| **Main flow** | 1. **E05** go to **E12** 2. **E12** send require get question list **E10** by web service 3. **E12** show question list 4. **E05** choose a question 5. **E12** show detail of question 6. **E05** choose **Đăng câu hỏi** 7. **E12** send requires to save question content to **E15,** **E16** by **E10** 8. **E15, E16** save information of question 9. **E12** show message upload question is success | | |
| **Post conditions** | Question is uploaded | | |
| **Alternate flows** |  | | |
| **Exceptional flow** | **Case Ex01: Upload question is fail** | | |
| 1. **E05** go to **E12** 2. **E12** send require get question list **E10** by web service 3. **E12** show question list 4. **E05** choose a question 5. **E12** show detail of question 6. **E05** choose **Đăng câu hỏi** 7. **E12** send requires to save question content to **E15,** **E16** by **E10** 8. **E15, E16** save information of question 9. **E12** show message upload question is fail | | |

Table 80: Descrip usecase Đăng câu hỏi trên internet trên android app

##### Drop-dict on android app

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Drop-dict trên android app | **Usecase ID** | UC04.09 |
| **Description** | Allow Answer Department (**E05**) to drop question on Dictionary management system (andrioid app) (**E12**) by Dictionary management system (**E10**) | | |
| **Entities Involves** | * Answer Department (**E05**) * Dictionary management system (**E10**) * Dictionary management system (andrioid app) (**E12**) * Database intranet (**E15**) * Database internet (**E16**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E10, E12, E15, E16** is running * **E05** must have a account **E12** * **E05** sign in **E12** * **E05** have to admin * **E05** want to drop question * Question have to uploaded on internet | | |
| **Main flow** | 1. **E05** go to **E12** 2. **E05** choose **Đã đăng** 3. **E12** send require get question list to **E10** by web service 4. **E12** show question list 5. **E05** choose question 6. **E05** choose **Hạ câu hỏi.** 7. **E12** send require drop question **E15, E16** by **E10** 8. **E15, E16** update information of question 9. **E12** show message drop question is success | | |
| **Post conditions** | Question don’t have internet | | |
| **Alternate flows** |  | | |
| **Exceptional flow** | **Case Ex01: Drop question is fail** | | |
| 1. **E05** go to **E12** 2. **E05** choose **Đã đăng** 3. **E12** send require get question list to **E10** by web service 4. **E12** show question list 5. **E05** choose question 6. **E05** choose **Hạ câu hỏi.** 7. **E12** send require drop question **E15, E16** by **E10** 8. **E15, E16** update information of question 9. **E12** show message drop question is fail | | |

Table 81: Descrip usecase Drop-dict trên android app

##### Create question on android app

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Create question on android app | **Usecase ID** | UC04.10 |
| **Description** | Allow Answer Department (**E05**) to create question on Dictionary management system (andrioid app) (**E12**) by Dictionary management system (**E10**) | | |
| **Entities Involves** | * Answer Department (**E05**) * Dictionary management system (**E10**) * Dictionary management system (andrioid app) (**E12**) * Database intranet (**E15**) * Database internet (**E16**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E10, E12, E15, E16** is running * **E05** must have a acciunt **E12** * **E05** sign in **E12** * **E05** want to create question | | |
| **Main flow** | 1. **E05** go to **E12** 2. **E05** choose **Tạo câu hỏi** 3. **E12** show create question interface. 4. **E05** input information of new question 5. **E05** choose **Lưu** 6. **E12** save question to **E15, E16** by **E10** 7. **E15, E16** save information of question 8. **E12** show message create question is success | | |
| **Post conditions** | New question is created | | |
| **Alternate flows** |  | | |
| **Exceptional flow** |  | | |

Table 82: Descrip usecase Create question trên android app

#### Dictionary display system (andrioid app)

##### Search question on android app

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Tìm kiếm trên android app hiển thị | **Usecase ID** | UC05.01 |
| **Description** | Allow User (**E06**) to search question in question list by Dictionary display system (andrioid app) (**E13**) | | |
| **Entities Involves** | * User (**E06**) * Dictionary display system (**E11**) * Dictionary display system (andrioid app) (**E13**) * Database internet (**E16**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E11, E13, E16** is running * **E06** want to search question * Question have to saved to **E16** | | |
| **Main flow** | 1. **E06** choose question list interface 2. **E13** send require to **E11** by web service to get question list 3. **E13** show question list 4. **E06** input keyword 5. **E06** choose **Search** 6. **E13** send require and keyword to **E16** by webservice on **E11** 7. **E13** show result | | |
| **Post conditions** | Question that user need search is showed | | |
| **Alternate flows** | **Case A5:** | | |
| **A5.1: Question that need search is not exist**   1. **E06** click **Search** 2. **E13** send require and keyword to **E16** by webservice on **E11** 3. **E13** show message question is not exist | | |
| **Exceptional flow** |  | | |

Table 83: Descrip usecase Tìm kiếm trên android app hiển thị

##### View question detail on android app

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | View question detail on android app | **Usecase ID** | UC05.02 |
| **Description** | Allow User (**E06**) to view detail of question by Dictionary display system (andrioid app) (**E13**) | | |
| **Entities Involves** | * User (**E06**) * Dictionary display system (**E11**) * Dictionary display system (andrioid app) (**E13**) * Database intranet (**E15**) * Database internet (**E16**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E11, E13** is running * **E06** want to view detail of question * Question have to created and saved **E16** | | |
| **Main flow** | 1. **E06** go to question list interface 2. **E13** send require to **E16** by webservice **E11** to get question list 3. **E13** show question list 4. **E06** choose a question 5. **E13** show detail of question | | |
| **Post conditions** | Question Content is showed | | |
| **Alternate flows** |  | | |
| **Exceptional flow** |  | | |

Table 84: Descrip usecase View question detail trên android app hiển thị

##### Create question on android app

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Create question trên android app | **Usecase ID** | UC05.03 |
| **Description** | Allow User (**E06**) send question to Answer Department by Dictionary display system (andrioid app) (**E13**) | | |
| **Entities Involves** | * User (**E06**) * Dictionary display system (**E11**) * Dictionary display system (andrioid app) (**E13**) * Database intranet (**E15**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E11, E13, E15** is running * **E06** want to create question | | |
| **Main flows** | 1. **E06** go to question list interface 2. **E13** send require to **E16** by webservice trên **E11** to get question list 3. **E13** show question list 4. **E06** input information of new question (name, email, and question content) 5. **E06** choose **Gửi** 6. **E13** save question to **E15** by webservice on **E11** 7. **E15** save question 8. **E13** show message question is sent | | |
| **Post conditions** | Question is sent to **Danh sách câu hỏi chưa trả lời** | | |
| **Alternate flows** | **Case A4:** | | |
| **A4.1: Information is not enough**   1. **E06** input information of new question (name, email, and question content) 2. **E06** choose **Gửi** 3. **E13** show message information nis not enoguh 4. **E06** input information again 5. **E06** choose **Gửi** 6. **E13** send question to **E15** by webservice on **E11** 7. **E15** save question 8. **E13** show message send question is success | | |
| **Exceptional flow** |  | | |

Table 85: Descrip usecase Create question trên android app hiển thị

#### User management module

##### Create new account

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Create new account | **Usecase ID** | UC06.01 |
| **Description** | Allow Answer Department (**E05**) to create new account by Dictionary management system (**E10**) | | |
| **Entities Involves** | * Answer Department (**E05**) * Dictionary management system (**E10**) * Database intranet (**E15**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E10, E15** is running * **E05** want to create new account | | |
| **Main flows** | 1. **E06** access to **E10** 2. **E06** choose **Đăng ký** 3. **E10** show create account interface 4. **E05** input information of account 5. **E05** choose **Đăng ký** 6. **E10** save to **E15** 7. **E15** save information 8. **E10** show message new account is created | | |
| **Post conditions** | New account is created | | |
| **Alternate flows** | **Case A4:** | | |
| **A4.1: Information is not enough**   1. **E06** input information of new account (information is not enough) 2. **E06** choose **Đăng ký** 3. **E10** show message information is not enough 4. **E06** input information again (information is enough) 5. **E06** choose **Đăng ký** 6. **E10** save information to **E15** 7. **E15** save informaton 8. **E10** show message create new account is success | | |
| **Exceptional flow** |  | | |

Table 86: Descrip usecase Tạo tài khoản

##### View information of user

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | View information of user | **Usecase ID** | UC06.02 |
| **Description** | Allow to Answer Department (**E05**) to view information of user by Dictionary management system (**E10**) | | |
| **Entities Involves** | * Answer Department (**E05**) * Dictionary management system (**E10**) * Database intranet (**E15**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E10, E15** is running * **E05** must have a account vào **E10** * **E05** sign in **E10** * **E05** want to view information of user | | |
| **Main flows** | 1. **E06** go to **E10** 2. **E10** show question list 3. **E05** choose name of user 4. **E10** show detail information of user interface | | |
| **Post conditions** | Information of user is showed | | |
| **Alternate flows** |  | | |
| **Exceptional flow** |  | | |

##### Change pasword

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Change password | **Usecase ID** | UC06.02 |
| **Description** | Allow Answer Department (**E05**) to change password by Dictionary management system (**E10**) | | |
| **Entities Involves** | * Answer Department (**E05**) * Dictionary management system (**E10**) * Database intranet (**E15**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E10, E15** is running * **E05** must have a account **E10** * **E05** sign in **E10** * **E05** want to change password | | |
| **Main flows** | 1. **E06** go to **E10** 2. **E10** show question list 3. **E05** choose **Đổi mật khẩu** 4. **E10** show change password interface 5. **E05** input current password and new password 6. **E05** choose **Lưu** 7. **E10** save new password to **E15** 8. **E15** save new password 9. **E10** show message password is changed | | |
| **Post conditions** | Password is changed | | |
| **Alternate flows** |  | | |
| **Exceptional flow** |  | | |

Table 88: Descrip usecase Đổi mật khẩu

#### System

##### Login Article system

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Đăng nhập Article system | **Usecase ID** | UC07.01 |
| **Description** | Allow Editor-in-chief (**E01**), Editor (**E02**), Reporter (**E03**), Catalog manager (**E04**) to sign in Article system (**E07**) | | |
| **Entities Involves** | * Editor-in-chief (**E01**) * Editor (**E02**) * Reporter (**E03**) * Catalog manager (**E04**) * Article system (**E07**) * Database intranet (**E15**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E07, E15** is running * **E01, E02, E03, E04** must have a account **E07** * **E01, E02, E03, E04** want to sign in **E07** | | |
| **Main flows** | 1. **E01, E02, E03, E04** access to link of Article system (**E07**) 2. **E10** show login interface 3. **E01, E02, E03, E04** input ID and password 4. **E01, E02, E03, E04** choose **Đăng nhập** 5. **E07** show article list | | |
| **Post conditions** | **E01, E02, E03, E04** is sign in system | | |
| **Alternate flows** | **Case A3:** | | |
| **A3.1. information is wrong**   1. **E01, E02, E03, E04** input ID and password 2. **E01, E02, E03, E04** choose **Đăng nhập** 3. **E07** show message information is wrong 4. **E01, E02, E03, E04** input ID and password again 5. **E01, E02, E03, E04** choose **Đăng nhập** 6. **E07** show article list | | |
| **Exceptional flow** |  | | |

Table 89: Descrip usecase Đăng nhập Article system

##### Logout Article system

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Logout Article system | **Usecase ID** | UC07.02 |
| **Description** | Allow Editor-in-chief (**E01**), Editor (**E02**), Reporter (**E03**), Catalog manager (**E04**) to sign out Article system (**E07**) | | |
| **Entities Involves** | * Editor-in-chief (**E01**) * Editor (**E02**) * Reporter (**E03**) * Catalog manager (**E04**) * Article system (**E07**) * Database intranet (**E15**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E07, E15** is running * **E01, E02, E03, E04** must have a account **E07** * **E01, E02, E03, E04** want to sign out **E07** * **E01, E02, E03, E04** signed in **E07** | | |
| **Main flows** | 1. **E01, E02, E03, E04** choose **Đăng xuất** 2. **E07** return to login interface | | |
| **Post conditions** | **E01, E02, E03, E04** is signed out | | |
| **Alternate flows** |  | | |
| **Exceptional flow** |  | | |

Table 90: Descrip usecase Đăng xuất Article system

##### Login Dictionary management system

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Login Dictionary management system | **Usecase ID** | UC07.03 |
| **Description** | Allow Answer Department (**E05**) to sign in Dictionary management system (**E10**) | | |
| **Entities Involves** | * Answer Department (**E05**) * Dictionary management system (**E10**) * Database intranet (**E15**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E10, E15** is running * **E05** must have a account **E10** * **E05** sign in **E10** | | |
| **Main flows** | 1. **E05** access to link Dictionary management system (**E10**) 2. **E10** show login interface 3. **E05** input ID and password 4. **E05** choose **Đăng nhập** 5. **E10** show **Danh sách chưa trả lời** | | |
| **Post conditions** | **E05** sign in system is success | | |
| **Alternate flows** | **Case A3:** | | |
| **A3.1. Information is wrong**   1. **E05** input ID and password (information is wrong) 2. **E05** choose **Đăng nhập** 3. **E10** show message ID or password is wrong | | |
| **Exceptional flow** |  | | |

Table 91: Descrip usecase Đăng nhập Dictionary management system

##### Log out Dictionary management system

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Đăng xuất Dictionary management system | **Usecase ID** | UC07.04 |
| **Description** | Allow Answer Department (**E05**) to sign out Dictionary management system (**E10**) | | |
| **Entities Involves** | * Answer Department (**E05**) * Dictionary management system (**E10**) * Database intranet (**E15**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E10, E15** is running * **E05** must have a account **E10** * **E05** want to sign out **E10** * **E05** signed in **E10** | | |
| **Main flows** | 1. **E05** choose **Đăng xuất** 2. **E10** show login interface | | |
| **Post conditions** | **E05** sign out system | | |
| **Alternate flows** |  | | |
| **Exceptional flow** |  | | |

Table 92: Descrip usecase Đăng xuất Dictionary management system

##### Login android app

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Đăng nhập công cụ android app | **Usecase ID** | UC07.05 |
| **Description** | Allow Answer Department (**E05**) to sign in Dictionary management system (andrioid app) (**E12**) | | |
| **Entities Involves** | * Answer Department (**E05**) * Dictionary management system (**E12**) * Database intranet (**E15**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E12, E15** is running * **E05** must have a account **E12** * **E05** want to sign in **E12** | | |
| **Main flows** | 1. **E05** access to link of Dictionary management system (andrioid app) (**E12**) 2. **E12** show login interface 3. **E05** input ID and password 4. **E05** choose **Đăng nhập** 5. **E12** show question list interface | | |
| **Post conditions** | **E05** sign in system is success | | |
| **Alternate flows** | **Case A3:** | | |
| **A3.1. infroamtion is wrong**   1. **E05** input ID and password (information is wrong) 2. **E05** choose **Đăng nhập** 3. **E10** show message ID or password is wrong | | |
| **Exceptional flow** |  | | |

Table 93: Descrip usecase Đăng nhập android app

##### Logout android app

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase** | Logout Dictionary management system (andrioid app) | **Usecase ID** | UC07.06 |
| **Description** | Allow to Answer Department (**E05**) to sign out Dictionary management system (andrioid app) (**E12**) | | |
| **Entities Involves** | * Answer Department (**E05**) * Dictionary management system (**E10**) * Database intranet (**E15**) | | |
| **Business rules** |  | | |
| **Preconditions** | * **E12, E15** is running * **E05** must have a account **E12** * **E05** want to sign out **E12** * **E05** signed in **E12** | | |
| **Main flows** | 1. **E05** choose **Đăng xuất** 2. **E12** return to login interface | | |
| **Post conditions** | **E05** sign out system is success | | |
| **Alternate flows** |  | | |
| **Exceptional flow** |  | | |

Table 94: Descrip usecase Đăng xuất android app

# **Quality Attribute scenario**

## Quality Attribute List

|  |  |
| --- | --- |
| **ID** | **Title of scenarios** |
| **Performance** | |
| [QAP01](#_Tìm_kiếm_bản_2) | Search articles on intranet about 2 seconds |
| [QAP02](#_Tìm_kiếm_bản_3) | Search question on the intranet about 2 seconds |
| [QAP03](#_Tìm_kiếm_câu_1) | Search question on the internet about 2 seconds |
| [QAP04](#_Lưu_bản_tin) | Save a article on intranet about 3 seconds |
| [QAP05](#_Đăng_tin_internet) | Upload question to internet about 5 seconds |
| [QAP06](#_Đáp_ứng_1000) | Respone 1000 users access to system about 2 seconds |
| **Integrity** | |
| [QAI01](#_Tự_động_lưu) | Auto save article when disconet |
| **Security** | |
| [QAS01](#_Mã_hóa_mật) | Encryption passwords |
| **Usability** | |
| [QAU01](#_Cấu_hình) | Configurate system can run focus or independence |
| [QAU02](#_Giao_diện_trực) | Interface is easy to use |
| **Modifiability** | |
| [QAM01](#_Thực_hiện_trên) | System can change to IOS |
| **Scalability** | |
| [QASc01](#_Mở_rộng_những) | System can expand focus or independence |
| **Reliability** | |
| [QAR01](#_Trả_về_nội) | Result that is return from search data have to same keyword |

Table 95: Danh sách thuộc tính chất lượng

## QA Scenario

### Performance

#### Search articles on intranet

|  |  |
| --- | --- |
| **Title of scenario:**  **Search articles on intranet** | **ID: QAP01** |
| **Quality Attribute:**  Performance | **Characterization ID**: QAP |
| **Context** | Editor-in-chief, editor, reporter require search article, Article system will respone result about 2 seconds with condition is less 10000 article in database intranet |
| **Describe stakeholder role proposing the description:** Customer and Architect | |
| **Stimulus** | Execute search article at Article system |
| **Source(s) of the stimulus** | Editor-in-chief, editor, reporter |
| **Environment** | Article system is running  Steady state  Transmission speeds: 100KB/s 🡪 200KB/s |
| **Artifact stimulated** | Article system  Database intranet |
| **Response** | Show result that have to same keyword |
| **Response measure(s)** | About 2 second with condition is less 10000 article in database intranet |
| **Associated risks** | If system is stop, Editor-in-chief, editor, reporter can’t search |

Table 96: Kịch bản chất lượng Search articles on intranet

#### Search articles on internet

|  |  |
| --- | --- |
| **Title of scenario:**  **Search question on the intranet** | **ID: QAP02** |
| **Quality Attribute:**  Performance | **Characterization ID**: QAP |
| **Context** | Search function on Dictionary management system allow answer department to search article about 2 second with number of article less 10.000 in database internet |
| **Describe stakeholder role proposing the description:** Customer and Architect | |
| **Stimulus** | Execute search article at Dictionary management system |
| **Source(s) of the stimulus** | Answer Department  Database intranet |
| **Environment** | Steady state  Bandwidth: 100KB/s 🡪 200KB/s  Dictionary management system is running |
| **Artifact stimulated** | Dictionary display system |
| **Response** | Show result that have to same keyword |
| **Response measure(s)** | About 2 second with condition is less 10000 article in database intranet |
| **Associated risks** | If system is stop, Answer Department  can’t search |

Table 97: Kịch bản chất lượng Search articles on internet

#### Search question on the internet

|  |  |
| --- | --- |
| **Title of scenario:**  **Search question** | **ID: QAP03** |
| **Quality Attribute:**  Performance | **Characterization ID**: QAP |
| **Context** | Search function on Dictionary display system allow users to search article about 2 second with number of question less 10.000 in index file and number of access user less 1.000 |
| **Describe stakeholder role proposing the description:** Customer and Architect | |
| **Stimulus** | Thực hiện chức năng tìm kiếm trên Dictionary display system |
| **Source(s) of the stimulus** | User |
| **Environment** | Steady state  Bandwidth: 10 Mb  Dictionary management system is running |
| **Artifact stimulated** | Dictionary display system |
| **Response** | Show result that have to same keyword |
| **Response measure(s)** | About 2 second with condition is less 10000 article in database intranet and number of access user less 1.000 |
| **Associated risks** | If system is stop, user can’t search  If user disconet, user can’t search |

Table 98: Kịch bản chất lượng Search question on the internet

#### Save Article on intranet

|  |  |
| --- | --- |
| **Title of scenario:**  **Lưu bản tin trên intranet** | **ID: QAP03** |
| **Quality Attribute:**  Performance | **Characterization ID**: QAP |
| **Context** | Editor-in-chief, editor hay reporter create article about 2 seconds |
| **Describe stakeholder role proposing the description:** Customer and Architect | |
| **Stimulus** | Execute create and save article to Article system |
| **Source(s) of the stimulus** | Editor-in-chief, editor, reporter |
| **Environment** | Article system is running  Steady state  Bandwidth: 10 Mb |
| **Artifact stimulated** | Article system  Database intranet |
| **Response** | Show success message |
| **Response measure(s)** | Respone about 2 seconds  Size of article less 10MB |
| **Associated risks** | - If system is stop, Editor-in-chief, editor, reporter can’t create article |

Table 99: Kịch bản chất lượng Lưu bản tin intranet

#### Upload article on internet

|  |  |
| --- | --- |
| **Title of scenario:**  **Upload article on internet** | **ID: QAP04** |
| **Quality Attribute:**  Performance | **Characterization ID**: QAP |
| **Context** | Editor-in-chief upload article in Article system to Display article-inter about 5 seconds |
| **Describe stakeholder role proposing the description:** Customer and Architect | |
| **Stimulus** | Execute upload article from Article system to Display article-inter |
| **Source(s) of the stimulus** | Editor-in-chief |
| **Environment** | Article system is running  Article display system is running  Steady state  Bandwidth: 10MB |
| **Artifact stimulated** | Article system  Web service on Display article-inter  Display article-inter |
| **Response** | Show message upload dictionary is success |
| **Response measure(s)** | Respone result about 5 seconds  Size of article less 10MB |
| **Associated risks** | - If system is disconet, Editor-in-chief can’t upload article |

Table 100: Kịch bản chất lượng Đăng tin internet

#### Repone to 1000 usera about 2 giây

|  |  |
| --- | --- |
| **Title of scenario:**  **Respone to 1000 users about 2 giây** | **ID: QAP05** |
| **Quality Attribute:**  Performance | **Characterization ID**: QAP |
| **Context** | Dictionary display system have to respone to 1000 users respone speed about 2 seconds |
| **Describe stakeholder role proposing the description:** Customer and Architect | |
| **Stimulus** | When user access to Dictionary display system |
| **Source(s) of the stimulus** | User |
| **Environment** | Dictionary display system is running  Steady state  Bandwidth: 10MB |
| **Artifact stimulated** | Dictionary display system  Database internet |
| **Response** | Meet 1000 user access |
| **Response measure(s)** | Show question list about 2 seconds with 1000 users access |
| **Associated risks** | - If user don’t access interface, users can’t access to Dictionary display system |

Table 101: Kịch bản chất lượng Đáp ứng 1000 người truy cập trong 2 giây

### Security

#### Encrypt password

|  |  |
| --- | --- |
| **Title of scenario:**  **Mã hóa mật khẩu** | **ID: QAS01** |
| **Quality Attribute:**  Security | **Characterization ID**: QAS |
| **Context** | Tất cả users sử dụng Article system, Dictionary management system và công cụ quản trị bộ từ điển trên android, mật khẩu của họ phải được mã hóa (MD5) và được lưu xuống database intranet sau khi thực hiện chức năng đăng kí người dùng trên module user management.  All users that use Article System and Dictionary management system and Dictionary management system on android, their password have to encrypted (MD5) and saved to database intranet after register new user |
| **Describe stakeholder role proposing the description:** Customer and Architect | |
| **Stimulus** | Register new account on module User management. |
| **Source(s) of the stimulus** | System management |
| **Environment** | User management module is running  Steady state  Transmission speeds: 100KB/s 🡪 200KB/s |
| **Artifact stimulated** | Module system management  Database intranet |
| **Response** | Password have to encrypt (MD5) and saved to database intranet |
| **Response measure(s)** | Save password by MD5 format |
| **Associated risks** | - - If user don’t access interface, users can’t access to syste management module |

Table 102: Kịch bản chất lượng Mã hóa mật khẩu

### Integrity

#### Autosave when disconet

|  |  |
| --- | --- |
| **Title of scenario:**  **Autosave when disconet** | **ID: QAI01** |
| **Quality Attribute:**  Integrity | **Characterization ID**: QAI |
| **Context** | Users are writing article or answer question but they are disconet, content of article/question autosave in save temporary list and it have to integrity about 60% - 100% |
| **Describe stakeholder role proposing the description:** Customer and Architect | |
| **Stimulus** | Disconet when users are writing article/question |
| **Source(s) of the stimulus** | Editor-in-chief, editor, reporter, answer department |
| **Environment** | Dictionary management system or article system is running  Disconet state |
| **Artifact stimulated** | Dictionary management system  Article system  Database intranet |
| **Response** | Show message server not found and article/ question content is saved to save temporary list |
| **Response measure(s)** | Article/question have to integrity about 60% - 100% |
| **Associated risks** | If power cut Dictionary management system/Article system not sure this QA |

Table 103: Kịch bản chất lượng Tự động lưu bản tin khi mất kết nối

### Usability

#### Configuration

|  |  |
| --- | --- |
| **Title of scenario:**  **Cấu hình** | **ID: QAU01** |
| **Quality Attribute:**  Usability | **Characterization ID**: QAU |
| **Context** | User can configurate Dictionary management system and Dictionary display system run focus or independent |
| **Describe stakeholder role proposing the description:** Customer and Architect | |
| **Stimulus** | Configurate to Dictionary management system and Dictionary display system run focus or independent |
| **Source(s) of the stimulus** | User |
| **Environment** | Dictionary display system and Dictionary management system is running  Steady state  Transmission speeds: 100KB/s 🡪 200KB/s |
| **Artifact stimulated** | Dictionary display system  Dictionary management system |
| **Response** | Show message configuration is success |
| **Response measure(s)** |  |
| **Associated risks** |  |

Table 104: Kịch bản chất lượng Cấu hình

#### Interface that easy to use

|  |  |
| --- | --- |
| **Title of scenario:**  **Giao diện trực quan** | **ID: QAU02** |
| **Quality Attribute:**  Usability | **Characterization ID**: QAU |
| **Context** | User execute write article/send mail with interface that easy to use |
| **Describe stakeholder role proposing the description:** Customer and Architect | |
| **Stimulus** | Execute write article/send mail with interface that easy to use |
| **Source(s) of the stimulus** | Editor-in-chief, editor, reporter, answer department |
| **Environment** | Article system and Dictionary management system is running  Steady state  Transmission speeds: 100KB/s 🡪 200KB/s |
| **Artifact stimulated** | Dictionary display system  Dictionary management system |
| **Response** | User write article or send mail is easy |
| **Response measure(s)** | User use interface is easy |
| **Associated risks** |  |

Table 105: Kịch bản chất lượng Giao diện trực quan

### Modifiability

#### Ability to develop on iOS

|  |  |
| --- | --- |
| **Title of scenario:**  **Develop on iOS** | **ID: QAM01** |
| **Quality Attribute:**  Modifiability | **Characterization ID**: QAM |
| **Context** | Product owner can develop system by IOS about 3 week with 6 members |
| **Describe stakeholder role proposing the description:** Customer | |
| **Stimulus** | Product owner want to develop system on iOS |
| **Source(s) of the stimulus** | Customer |
| **Environment** | System is designing |
| **Artifact stimulated** | Dictionary management system and Dictionary display system |
| **Response** | Meet develop by iOS |
| **Response measure(s)** | 3 week (8 hour/day)  6 developer |
| **Associated risks** | - if team don’t enough 6 developer and developer don’t have knowleage about iOS, team can develop system more 3 week. |

Table 106: Kịch bản chất lượng Thực hiện iOS app

### Scalability

#### System can expand function

|  |  |
| --- | --- |
| **Title of scenario:**  **Khả năng mở rộng** | **ID: QASc01** |
| **Quality Attribute:**  Scalability | **Characterization ID**: QASc |
| **Context** | This system have ability to decompose to independence components and run other devices |
| **Describe stakeholder role proposing the description:** Customer and Architect | |
| **Stimulus** | Decompose component ( Article system, Dictionary management system, Dictionary display system) to independence components and run other devices |
| **Source(s) of the stimulus** | Customer |
| **Environment** | All tool is Steady running |
| **Artifact stimulated** | Dictionary management system  Dictionary display system  Article system |
| **Response** | Decompose to independence components |
| **Response measure(s)** |  |
| **Associated risks** |  |

Table 107: Kịch bản chất lượng Mở rộng những chức năng trên các công cụ

### Reliability

#### Search result have to same keyword

|  |  |
| --- | --- |
| **Title of scenario:**  **Search result have to same keyword** | **ID: QAR01** |
| **Quality Attribute:**  Reliability | **Characterization ID**: QAR |
| **Context** | Users input keyword on Dictionary display system, Dictionary management system and article system. Search result is return with exactly about 80% |
| **Describe stakeholder role proposing the description:** Customer and Architect | |
| **Stimulus** | Input keyword, all tool have to return result with accuracy about 80% |
| **Source(s) of the stimulus** | Editor-in-chief, editor, reporter, User, answer department |
| **Environment** | Dictionary display system, Dictionary management system and Article system is running |
| **Artifact stimulated** | Dictionary management system  Dictionary display system  Article system |
| **Response** | Search result have to relate with keyword |
| **Response measure(s)** | accuracy about 80% than keyword |
| **Associated risks** | - If system don’t access internet, system can’t search data |

Table 108: Kịch bản chất lượng Trả về nội dung tương ứng với từ khóa cần tìm kiếm

# **Priority**

## Referennce

Criteria to evaluate priority of customer

|  |  |
| --- | --- |
| **Mức độ ưu tiên** | **Description** |
| **High** | Functions and quality is require develop by customer and it’s very important with customer |
| **Medium** | Functions is propose by customer, it’s important slightly |
| **Low** | Functions that customer want to develop but it’s don’t planned |

Table 109: Tiêu chí đánh độ ưu tiên của các bên liên quan

Criteria to evaluate priority of developer

|  |  |
| --- | --- |
| **Mức độ ưu tiên** | **Description** |
| **Hard** | Hard priority when development team not sure the way to develop this function or they don’t experience about this function |
| **Challenging** | When development team understood generous about the way to develop this function, they can see problem and can solve it |
| **Easy** | When development team have experience to develop this function and they can develop function very fast |

Table 110: Tiêu chí đánh độ ưu tiên của Team

## Evaluate priority

### Priority by usecase

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Use Case** | **Stakeholder priority** | **Difficulty ranking** | **Final Priority** |
| Article system | | | | |
| UC01.01 | Create article | High | Hard | High |
| UC01.02 | Edit article | High | Challenging | Medium |
| UC01.03 | Search articles | Medium | Challenging | Medium |
| UC01.04 | Search related articles | Medium | Challenging | Medium |
| UC01.05 | View article | High | Challenging | Medium |
| UC01.06 | Preview articles | High | Challenging | Medium |
| UC01.07 | Transfer articles | High | Challenging | Medium |
| UC01.08 | Approve articles | High | Hard | High |
| UC01.09 | Return article | High | Hard | High |
| UC01.10.01 | Upload Article | High | Challenging | Medium |
| UC01.10.02 | Upload article HTML | High | Challenging | Medium |
| UC01.11.01 | Drop Article | High | Hard | High |
| UC01.11.02 | Drop article HTML | Medium | Hard | Medium |
| UC01.12 | Get articles | Medium | Challenging | Medium |
| UC01.13.01 | Authorize | Medium | Hard | Medium |
| UC01.13.02 | Cancle authorization | Medium | Hard | Medium |
| UC01.14 | Delete articles | High | Hard | High |
| UC01.15 | Deleted article permanently | Medium | Hard | Medium |
| UC01.16 | Sort article | High | Challenging | Medium |
| UC01.17 | Comment | High | Challenging | Medium |
| UC01.18 | View catalog | High | Challenging | Medium |
| UC01.19 | Create catalog | Medium | Challenging | Medium |
| UC01.20 | Edit catalog | High | Hard | High |
| UC01.21 | Delete catalog | High | Challenging | Medium |
| UC01.22 | Sort catalog | Medium | Challenging | Medium |
| UC01.23 | Create index | High | Hard | High |
| Dictionary management system | | | | |
| UC02.01 | Search | Medium | Hard | Medium |
| UC02.02 | View question detail | High | Challenging | Medium |
| UC02.03 | Send mail | High | Challenging | Medium |
| UC02.04.01 | Delete question | High | Challenging | Medium |
| UC02.04.02 | Delete more question | Medium | Challenging | Medium |
| UC03.05.01 | Restore question | Medium | Challenging | Medium |
| UC03.05.02 | Restore more question | High | Challenging | Medium |
| UC02.06 | Insert question into dict | Medium | Challenging | Medium |
| UC02.07 | Update question | Medium | Challenging | Medium |
| UC02.08.01 | Upload-dict | High | Hard | Medium |
| UC02.08.02 | Upload-dict more | High | Hard | Medium |
| UC02.09.01 | Drop-dict | High | Hard | Medium |
| UC02.09.02 | Drop-dict more | High | Hard | Medium |
| UC02.10 | Create index | High | Hard | Medium |
| UC02.11 | Create question | Medium | Challenging | Medium |
| UC02.12 | User config | High | Hard | Medium |
| UC02.13 | Mail config | High | Hard | Medium |
| UC02.14 | System config | High | Hard | Medium |
| UC02.15 | Help | Medium | Challenging | Medium |
| UC02.16 | Setting paging | Medium | Challenging | Medium |
| Dictionary display system | | | | |
| UC03.01 | Search question | Medium | Hard | Medium |
| UC03.02 | View question detail | High | Challenging | Medium |
| UC03.03 | Create question | High | Challenging | Medium |
| UC03.04 | Setting paging | Medium | Challenging | Medium |
| **Dictionary management system (andrioid app)** | | | | |
| UC04.01 | Search question on android app | Medium | Hard | Medium |
| UC04.02 | View question detail on android app | High | Hard | High |
| UC04.03 | Send mail trên android app | High | Hard | High |
| UC04.04 | Delete question on android app | High | Hard | High |
| UC04.05 | Restore question on android app | Medium | Hard | Medium |
| UC04.06 | Insert question into dict on android app | High | Hard | High |
| UC04.07 | Update question on android app | Medium | Hard | Medium |
| UC04.08 | Upload-dict on android app | High | Hard | High |
| UC04.09 | Drop-dict on android app | High | Challenging | High |
| UC04.10 | Create question on android app | Medium | Challenging | Medium |
| **Dictionary display system (andrioid app)** | | | | |
| UC05.01 | Search question on android app | Medium | Hard | Medium |
| UC05.02 | View question detail on android app | High | Hard | High |
| UC05.03 | Create question on android app | High | Hard | High |
| **User management module** | | | | |
| UC06.01 | Create new account | Medium | Easy | Low |
| UC06.02 | View detail account | Medium | Easy | Low |
| UC06.03 | Change password | Medium | Easy | Low |
| **Hệ thống** | | | | |
| UC07.01 | Login Article system | Medium | Easy | Low |
| UC07.02 | Logout Article system | Medium | Easy | Low |
| UC07.03 | Login Dictionary management system | Medium | Easy | Low |
| UC07.04 | Logout Dictionary management system | Medium | Easy | Low |
| UC07.05 | Login android app | Medium | Easy | Low |
| UC07.06 | Logout android app | Medium | Easy | Low |

Table 111: Đánh giá độ ưu tiên usecase

### Evaluate priority by quality attributes

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Title** | **Stakeholder priority** | **Difficulty ranking** | **Final Priority** |
| QAP01 | Search articles on intranet | Medium | Hard | Medium |
| QAP02 | Search question on the intranet | Medium | Hard | Medium |
| QAP03 | Search question on the internet | Medium | Hard | Medium |
| QAP04 | Save article on intranet | High | Hard | High |
| QAP05 | Upload article on internet | High | Hard | High |
| QAP06 | Respone to 1000 user about 2 seconds | High | Hard | High |
| QAS01 | Encrypt password | Medium | Challenging | Medium |
| QAS03 | Don’t show error of system | Medium | Challenging | Medium |
| QAI01 | Auto save when disconet | High | Hard | High |
| QAU01 | Configurate system run focus or independence | Medium | Hard | Medium |
| QAU02 | Interface that easy to use | High | Challenging | Medium |
| QAM01 | Ability to develop by iOS | Medium | Hard | Medium |
| QASc01 | Expand system that can run focus or independence | High | Hard | High |
| QAR01 | Search result have to exactly about 80% | Medium | Challenging | Medium |

Table 112: Đánh độ ưu tiên thuộc tính chất lượng

### Evaluate by business constraint

|  |  |  |
| --- | --- | --- |
| **Description** | **Difficulty ranking** | **Note** |
| Schedule: 30 week | Medium |  |
| Human resource: 6 members | Medium |  |

Table 113: Đánh độ ưu tiên ràng buộc nghiệp vụ

### Evaluate by technical constraint

|  |  |  |
| --- | --- | --- |
| **Description** | **Difficulty ranking** | **Note** |
| Operation system: Window 7, Android, Browser web Google chrome 23-25, Firefox 14-16, IE 9-11, android 2.0. | Medium |  |
| Flatform: Java platform | Medium |  |
| Programing language: Java, Java Script, CSS, HTML | Medium |  |
| Tools: Eclipse, My SQL, Maven 2 | Medium |  |
| Protocol, standard, interface: J2EE, Spring 3 + hibernate, Lucene search | Medium |  |

Table 114: Đánh độ ưu tiên ràng buộc kĩ thuật