CSCI5448 – Object Oriented Analysis and Design

Class Project - Part #2

**Team Members:**

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**Title:**

**Entertainment and Sports Program – Next Generation (ESP-NGen)**

**Project Summary:**

This effort will produce an interactive sports tracking program that allows users to obtain news and information about their favorite sports, leagues, teams, and athletes. Users will be able to create an account, access different aspects of sports information and news, export data, save preferences, and receive customer support. System Admins will be responsible for keeping the statistical information up to date and providing support to other application users. Lastly, external journalists will be allowed to create an account as a reporter, submit stories and articles for approval, and receive support, if needed. The primary objective is to create a single sports related resource for the sports enthusiast application user.

**Project Requirements:**

The project requirements are broken into the four following categories: **Business Requirements, User Requirements, Functional Requirements,** and **Non-functional Requirements**

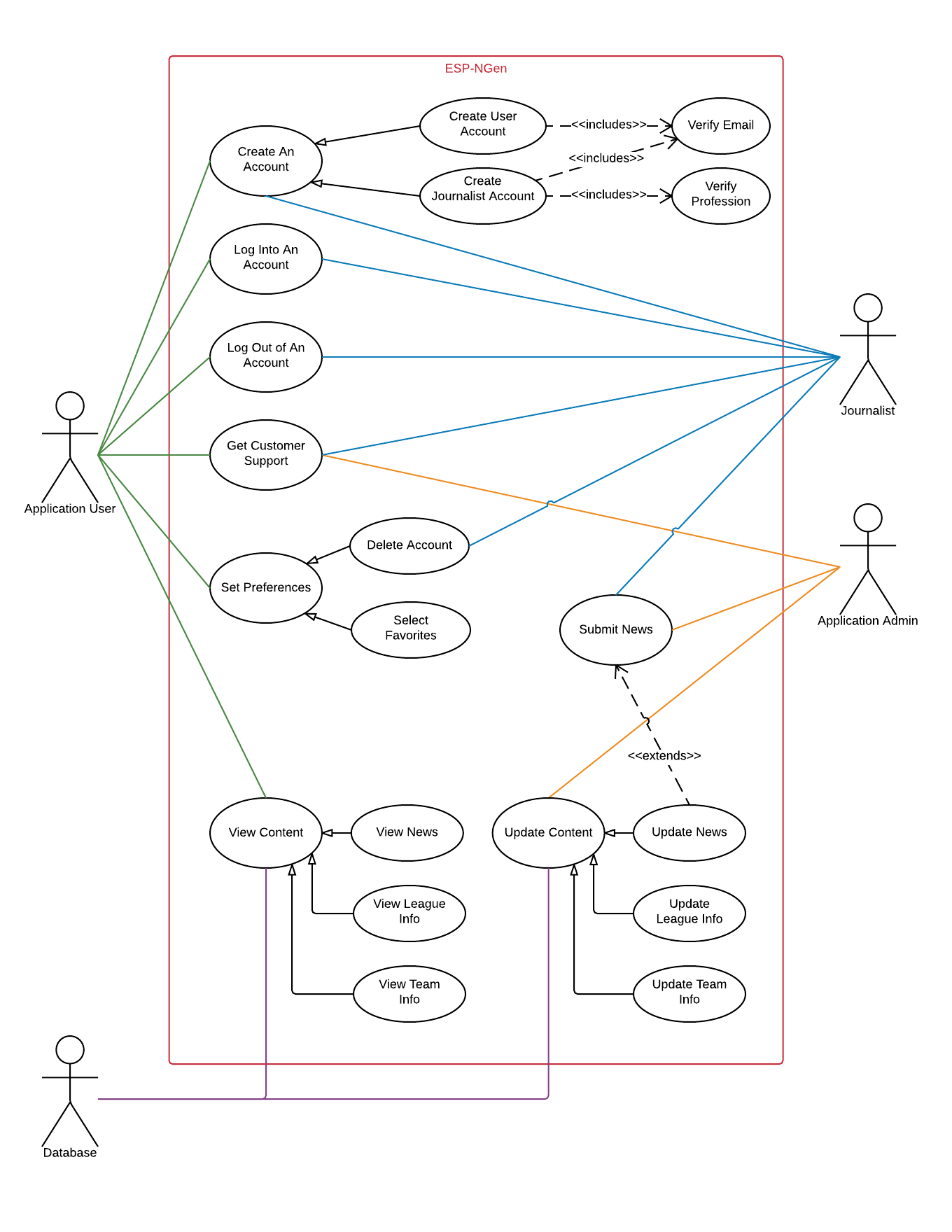
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| Business Requirements | | | | |
| ID | **Requirement** | **Topic Area** | **User** | **Priority** |
| BR-001 | Users can only create an account with a verified email address | Authentication | - Primary  - Journalist | High |
| BR-002 | Users can only create at most one primary user account and one journalist account per email address | Authentication | - Primary - Journalist | High |
| BR-003 | Admins must approve all externally submitted news articles and information | Updates | Admin | Med |
| BR-004 | Journalists must create an account with an email from a verified news source domain name | Authentication | Journalist | High |

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| User Requirements | | | | |
| ID | **Requirement** | **Topic Area** | **User** | **Priority** |
| UR-001 | Primary user shall be able to view sports content related (but not limited) to league, team, and player information | User Content | Primary | Critical |
| UR-002 | Admin shall be able to update sports content related (but not limited) to league, team, and player information | User Content | Primary | Critical |
| UR-003 | Primary user shall be able to access preferences, such as favorites, that will be saved to their account | Preferences | Primary | Low |
| UR-004 | Primary user and journalists shall be able to delete their account at any time | Preferences | - Primary - Journalist | Med |
| UR-005 | Primary user and journalists shall be able to log into and out of their account | Authentication | - Primary - Journalist | High |
| UR-006 | Journalists shall be able to submit news articles to be posted through the application | User Content | Journalist | High |
| UR-007 | Primary users shall be able to view news articles and updates | User Content | Primary | High |
| UR-008 | Primary users and journalists shall be able to receive customer support from a system admin | Support | - Primary - Journalist - Admin | Med |

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| Functional Requirements | | | | |
| ID | **Requirement** | **Topic Area** | **User** | **Priority** |
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| Non-Functional Requirements | | | | |
| ID | **Requirement** | **Topic Area** | **User** | **Priority** |
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**Use Case Diagram:**

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**Use Case Documents:**

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| --- | --- | --- | --- |
| Use Case ID: | UC-01 | | |
| Use Case Name: | View News | | |
| Description: | Primary user can view sports related news content in the application | | |
| Created By: | Chris Pillion | Last Updated By: | Chris Pillion |
| Date Created: | 13-Oct-2016 | Date Last Updated: | 13-Oct-2016 |

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| Actors: | Primary User, Database | | |
| Preconditions: | * User is signed into the application via a user account * User is at the main options screen * At least one news article been submitted by journalist * At least one news article has been stored in the database for viewing | | |
| Postconditions: | * Primary user can see a list of available news articles * Primary user can view and read articles | | |
| Frequency of Use: | Multiple times daily by Primary User | | |
| Flow of Events: | **Step** | **Actor Action** | **System Response** |
| 1 | Primary user selects option to view news | System loads available news articles |
| 2 | Primary user selects desired article to read | System loads the article content from the database |
| 3 | Primary user can view content associated with article |  |
| Variations: | a | Primary user is not logged in | System notifies primary user that they must log in |
| b | No news articles have been submitted or stored | System notifies primary user that there is no news to show |
| Notes and Issues: | Specific case of the generalization “View Content” | | |
| Developer Notes: | May consider a quick way to bring the user to the main options screen for quick navigation | | |

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| --- | --- | --- | --- |
| Use Case ID: | UC-02 | | |
| Use Case Name: | View League Info | | |
| Description: | Primary user can view a sports league info content in the application | | |
| Created By: | Chris Pillion | Last Updated By: | Chris Pillion |
| Date Created: | 13-Oct-2016 | Date Last Updated: | 13-Oct-2016 |

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| --- | --- | --- | --- |
| Actors: | Primary User, Database | | |
| Preconditions: | * User is signed into the application via a user account * User is at the main options screen * An initial update (at the very least) for league stats has been performed by the admin and is stored in the database | | |
| Postconditions: | * Primary user can see a list of available sports to view * Primary user can view and read league info for the sport | | |
| Frequency of Use: | Multiple times daily by Primary User | | |
| Flow of Events: | **Step** | **Actor Action** | **System Response** |
| 1 | Primary user selects option to view league info | System loads available sports to view |
| 2 | Primary user selects desired sport to see league info | System loads the league info for the selected sport from the database |
| 3 | Primary user can view content associated with sport league |  |
| Variations: | a | Primary user is not logged in | System notifies primary user that they must log in |
| b | No league info is available because there was no initial update of that info | System notifies primary user that there is no info to show |
| Notes and Issues: | Specific case of the generalization “View Content” | | |
| Developer Notes: | May consider a quick way to bring the user to the main options screen for quick navigation | | |

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| --- | --- | --- | --- |
| Use Case ID: | UC-03 | | |
| Use Case Name: | View Team Info | | |
| Description: | Primary user can view a sports teams info content in the application | | |
| Created By: | Chris Pillion | Last Updated By: | Chris Pillion |
| Date Created: | 13-Oct-2016 | Date Last Updated: | 13-Oct-2016 |

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| --- | --- | --- | --- |
| Actors: | Primary User, Database | | |
| Preconditions: | * User is signed into the application via a user account * User is at the main options screen * An initial update (at the very least) for league stats has been performed by the admin and is stored in the database | | |
| Postconditions: | * Primary user can see a list of available sports to view * Primary user can view and read league info for the sport | | |
| Frequency of Use: | Multiple times daily by Primary User | | |
| Flow of Events: | **Step** | **Actor Action** | **System Response** |
| 1 | Primary user selects option to view team info | System loads available sports to view |
| 2 | Primary user selects desired sport to see associated teams | System loads the teams for the selected sport |
| 3 | Primary user selects a team | System loads the teams info from the database |
| 4 | Primary user can view content associated with the sports team |  |
| Variations: | a | Primary user is not logged in | System notifies primary user that they must log in |
| b | No team info is available because there was no initial update of that info | System notifies primary user that there is no info to show |
| Notes and Issues: | Specific case of the generalization “View Content” | | |
| Developer Notes: | May consider a quick way to bring the user to the main options screen for quick navigation | | |

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| --- | --- | --- | --- |
| Use Case ID: | UC-04 | | |
| Use Case Name: | Update News | | |
| Description: | Admin can update sports related news content in the application | | |
| Created By: | Chris Pillion | Last Updated By: | Chris Pillion |
| Date Created: | 13-Oct-2016 | Date Last Updated: | 13-Oct-2016 |

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| Actors: | Admin, Database | | |
| Preconditions: | * At least one news article been submitted by journalist * Article has been previously approved by an admin | | |
| Postconditions: | * The database is updated to contain new news articles | | |
| Frequency of Use: | At least once daily by Admin | | |
| Flow of Events: | **Step** | **Actor Action** | **System Response** |
| 1 | Admin selects an article from the approved articles | System shows preview of the article |
| 2 | Admin selects the desired posting location (news) | System loads the article content to the database |
| a | No news articles have been submitted | System notifies admin that there is no news to post |
| Notes and Issues: | Specific case of the generalization “Update Content” | | |
| Developer Notes: | N/A | | |

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| Use Case ID: | UC-05 | | |
| Use Case Name: | Update League Info | | |
| Description: | Admin can update sports league info content in the application | | |
| Created By: | Chris Pillion | Last Updated By: | Chris Pillion |
| Date Created: | 13-Oct-2016 | Date Last Updated: | 13-Oct-2016 |

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| Actors: | Admin, Database | | |
| Preconditions: | * Admin has appropriate data to be stored in the database | | |
| Postconditions: | * The database is updated to contain updated league info | | |
| Frequency of Use: | At least once daily by Admin | | |
| Flow of Events: | **Step** | **Actor Action** | **System Response** |
| 1 | Admin selects the desired posting location (league info) | System points to the appropriate spot in the database |
|  | 2 | Admin adds the league info to the database | System saves the info to the database |
|  | b | No league info is available | N/A |
| Notes and Issues: | Specific case of the generalization “Update Content” | | |
| Developer Notes: | N/A | | |

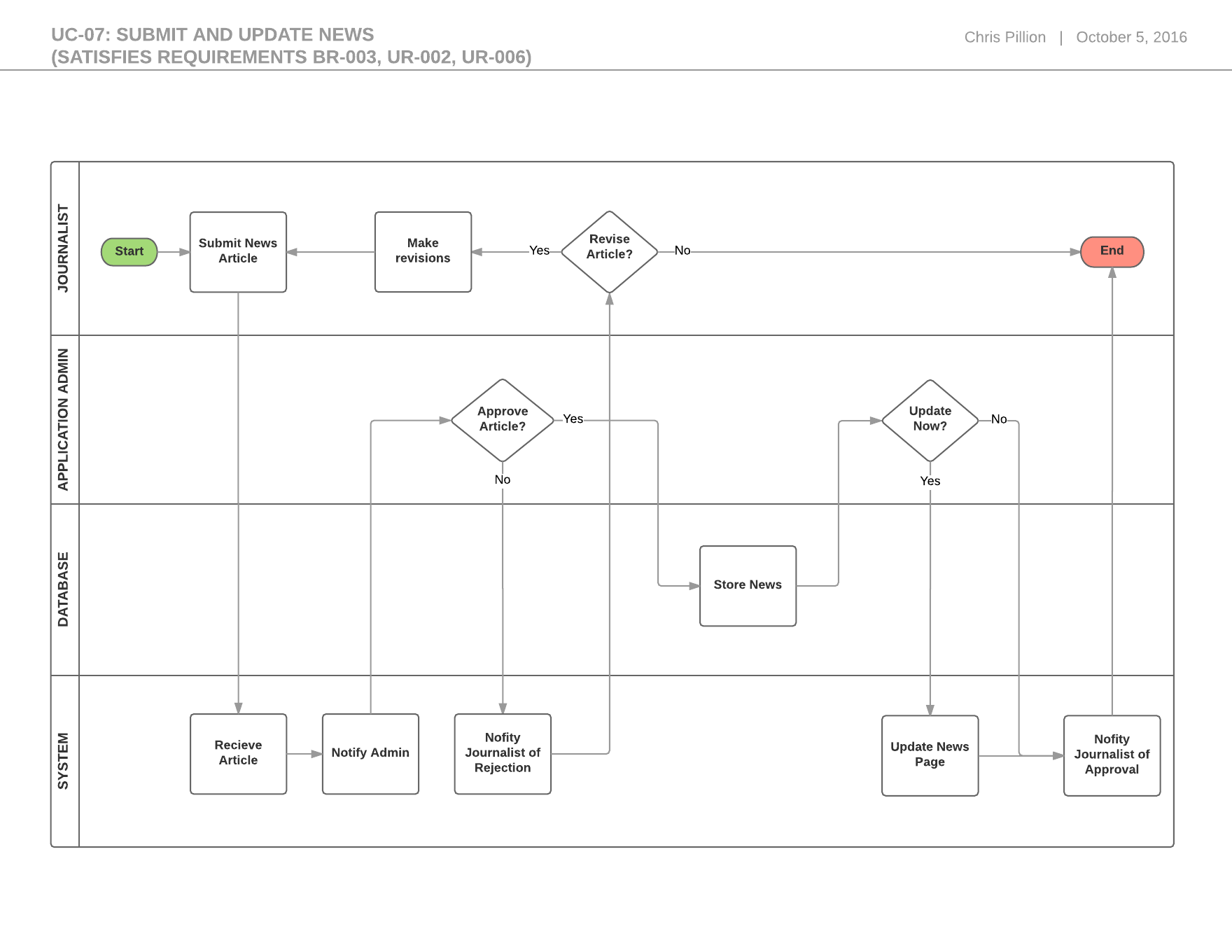
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| Use Case ID: | UC-06 | | |
| Use Case Name: | Update Team Info | | |
| Description: | Admin can update a sports teams info content in the application | | |
| Created By: | Chris Pillion | Last Updated By: | Chris Pillion |
| Date Created: | 13-Oct-2016 | Date Last Updated: | 13-Oct-2016 |

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| Actors: | Admin, Database | | |
| Preconditions: | * Admin has appropriate data to be stored in the database | | |
| Postconditions: | * The database is updated to contain updated team info | | |
| Frequency of Use: | At least once daily by the Admin | | |
| Flow of Events: | **Step** | **Actor Action** | **System Response** |
| 1 | Admin selects the desired posting location (team info) | System points to the appropriate spot in the database |
| 2 | Admin adds the team info to the database | System saves the info to the database |
| b | No team info is available | N/A |
| Notes and Issues: | Specific case of the generalization “Update Content” | | |
| Developer Notes: | N/A | | |

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| --- | --- | --- | --- |
| Use Case ID: | UC-07 | | |
| Use Case Name: | Submit News | | |
| Description: | Journalist can submit articles for approval and posting by admins | | |
| Created By: | Chris Pillion | Last Updated By: | Chris Pillion |
| Date Created: | 13-Oct-2016 | Date Last Updated: | 13-Oct-2016 |

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| --- | --- | --- | --- |
| Actors: | Journalist, Admin | | |
| Preconditions: |  | | |
| Postconditions: |  | | |
| Frequency of Use: | At least once daily by the Journalist | | |
| Flow of Events: | **Step** | **Actor Action** | **System Response** |
| 1 |  |  |
| 2 |  |  |
| b |  |  |
| Notes and Issues: | Admin has the option to immediately update the news or defer later | | |
| Developer Notes: | N/A | | |

**Activity Diagrams:**

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