**{Tower of Babel}**

**Author (s): Hongyi Liu (Yiming, Ellen, Chunxiao) Date: \_\_\_12/1/2019\_\_\_\_**

**Version: \_\_\_1\_\_\_\_\_\_**

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| --- | --- | --- | --- |
| **USE CASE NAME:** | Register | | **USE CASE TYPE** |
| **USE CASE ID:** | 2 | | **Business Requirements: 🗹** |
| **PRIORITY:** | High | |  |
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| **PRIMARY BUSINESS ACTOR:** | Any user | | |
| **OTHER PARTICIPATING ACTORS:** | * System | | |
| **OTHER INTERESTED STAKEHOLDERS:** |  | | |
| **SHORT DESCRIPTION:** | The user registers for an account. | | |
| **PRE-CONDITION:** | The user wants to join the Tower of Babel. | | |
| **TRIGGER:** | The user clicks the Register button. | | |
| **TYPICAL COURSE** | **Actor Action** | **System Response** | |
| **OF EVENTS:** | **Step 1**: The user enters their NYU email and password | **Step 2**: Creates temporary account. Sends verification email to the address | |
|  | The user activates the account | Account status is changed to activated. | |
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| **ALTERNATE COURSES:** | If the email address is not a valid NYU email address, then deny registration. | | |
|  | If the user wants to register for an instructor account, then recruitment information is checked. If verified, user gets instructor privilege. | | |
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| **CONCLUSION:** | The user now has an account that matches their status. | | |
| **POST-CONDITION:** | The user can participate in the events at Tower of Babel. | | |
| **BUSINESS RULES:** |  | | |
| **IMPLEMENTATION CONSTRAINTS AND SPECIFICATIONS:** | * Only those who have a valid NYU email can register for a Student Account, validity of the email will be checked via a confirmation email during registration. * Only those who have been recruited by the Tower of Babel SIG as instructors can register for an Instructor Account, validity of instructor role will be verified through pre-acquired recruitment information | | |
| **ASSUMPTIONS:** | Eligible students and instructors all have an accessible, valid NYU email. | | |
| **OPEN ISSUES:** |  | | |

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**Version: \_\_\_1\_\_\_\_\_\_**

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| --- | --- | --- | --- |
| **USE CASE NAME:** | Enroll in Class | | **USE CASE TYPE** |
| **USE CASE ID:** | 6A | | **Business Requirements: 🗹** |
| **PRIORITY:** | High | |  |
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| **PRIMARY BUSINESS ACTOR:** | Student | | |
| **OTHER PARTICIPATING ACTORS:** | * System | | |
| **OTHER INTERESTED STAKEHOLDERS:** | * Instructors, admin | | |
| **SHORT DESCRIPTION:** | The student enrolls in a class | | |
| **PRE-CONDITION:** | The user wants to join a class he finds. | | |
| **TRIGGER:** | The user clicks the Enroll button. | | |
| **TYPICAL COURSE** | **Actor Action** | **System Response** | |
| **OF EVENTS:** | **Step 1**: The student selects a class to enroll in | **Step 2**: Asks student to sign an electronic contract of commitment | |
|  | Signs the contract and uploads it | Confirm by sending an email including the signed contract | |
|  |  | Updates information on both student’s and class’ sides. | |
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| **ALTERNATE COURSES:** | When enrolling in more than one class, the student will receive a reminder about time commitment and workload | | |
|  | When there is an add/drop deadline and the date has passed, then no add is allowed. | | |
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| **CONCLUSION:** | The student is now enrolled in a class. | | |
| **POST-CONDITION:** | The user can take the class. | | |
| **BUSINESS RULES:** |  | | |
| **IMPLEMENTATION CONSTRAINTS AND SPECIFICATIONS:** | * Administrators can optionally set an add and drop deadline for the courses, after the date students will not be able to use the enroll and drop function | | |
| **ASSUMPTIONS:** | Students can get information of courses through other functions in the system | | |
| **OPEN ISSUES:** |  | | |

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| --- | --- | --- | --- |
| **USE CASE NAME:** | Drop Class | | **USE CASE TYPE** |
| **USE CASE ID:** | 6B | | **Business Requirements: 🗹** |
| **PRIORITY:** | High | |  |
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| **PRIMARY BUSINESS ACTOR:** | Student | | |
| **OTHER PARTICIPATING ACTORS:** | * System | | |
| **OTHER INTERESTED STAKEHOLDERS:** | * Instructors, admin | | |
| **SHORT DESCRIPTION:** | The student drops out of a class | | |
| **PRE-CONDITION:** | The user no longer wants to take a class they are in | | |
| **TRIGGER:** | The user clicks the Drop button. | | |
| **TYPICAL COURSE** | **Actor Action** | **System Response** | |
| **OF EVENTS:** | **Step 1**: The student selects a class to drop out of | **Step 2**: Updates information on both student’s and class’ sides. | |
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| **ALTERNATE COURSES:** | When there is an add/drop deadline and the date has passed, then no drop is allowed. | | |
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| **CONCLUSION:** | The student is no longer enrolled in the class. | | |
| **POST-CONDITION:** | The student is not part of the class now. | | |
| **BUSINESS RULES:** |  | | |
| **IMPLEMENTATION CONSTRAINTS AND SPECIFICATIONS:** | * Administrators can optionally set an add and drop deadline for the courses, after the date students will not be able to use the enroll and drop function | | |
| **ASSUMPTIONS:** | Students can get information of courses through other functions in the system | | |
| **OPEN ISSUES:** |  | | |

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| **USE CASE NAME:** | Take Attendance | | **USE CASE TYPE** |
| **USE CASE ID:** | 7 | | **Business Requirements: 🗹** |
| **PRIORITY:** | Medium | |  |
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| **PRIMARY BUSINESS ACTOR:** | Student, Teacher | | |
| **OTHER PARTICIPATING ACTORS:** | * System | | |
| **OTHER INTERESTED STAKEHOLDERS:** | * Admin | | |
| **SHORT DESCRIPTION:** | The instructor takes attendance at a class session. | | |
| **PRE-CONDITION:** | The class begins. | | |
| **TRIGGER:** | The instructor clicks Take Attendance button. | | |
| **TYPICAL COURSE** | **Actor Action** | **System Response** | |
| **OF EVENTS:** | **Step 1**: The instructor manually checks if each student on the list is present and mark them on an attendance sheet | **Step 2**: Updates information on both students’ and class’ sides. | |
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| **ALTERNATE COURSES:** |  | | |
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| **CONCLUSION:** | The teacher has attendance records of the class session. | | |
| **POST-CONDITION:** | The attendance records are in the system for reference. | | |
| **BUSINESS RULES:** |  | | |
| **IMPLEMENTATION CONSTRAINTS AND SPECIFICATIONS:** | * Changes should be allowed to be made to the attendance records. | | |
| **ASSUMPTIONS:** | The instructor can match the students with their registered names. | | |
| **OPEN ISSUES:** |  | | |

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**Version: \_\_\_1\_\_\_\_\_\_**

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| **USE CASE NAME:** | Send Notification | | **USE CASE TYPE** |
| **USE CASE ID:** | 9 | | **Business Requirements: 🗹** |
| **PRIORITY:** | High | |  |
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| **PRIMARY BUSINESS ACTOR:** | All users | | |
| **OTHER PARTICIPATING ACTORS:** | * System | | |
| **OTHER INTERESTED STAKEHOLDERS:** |  | | |
| **SHORT DESCRIPTION:** | A user sends notification to a certain user/group | | |
| **PRE-CONDITION:** | A user wants to notify someone. | | |
| **TRIGGER:** | A user sends a message. | | |
| **TYPICAL COURSE** | **Actor Action** | **System Response** | |
| **OF EVENTS:** | **Step 1**: The user writes a message and sends it to the system | **Step 2**: The system sends the message to the recipient(s) and notifies them. The system also sends an email to them. | |
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| **ALTERNATE COURSES:** |  | | |
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| **CONCLUSION:** | The message is sent. | | |
| **POST-CONDITION:** | The recipient is notified with the message. | | |
| **BUSINESS RULES:** |  | | |
| **IMPLEMENTATION CONSTRAINTS AND SPECIFICATIONS:** | Students and Instructors can send notifications to those who are a part of their respective class; Administrators can send notifications to all users. Users can view and respond to the notifications they receive | | |
| **ASSUMPTIONS:** |  | | |
| **OPEN ISSUES:** |  | | |

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**Version: \_\_\_1\_\_\_\_\_\_**

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| **USE CASE NAME:** | Issue Grades | | **USE CASE TYPE** |
| **USE CASE ID:** | 10 | | **Business Requirements: 🗹** |
| **PRIORITY:** | Medium | |  |
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| **PRIMARY BUSINESS ACTOR:** | Instructor, students | | |
| **OTHER PARTICIPATING ACTORS:** | * System | | |
| **OTHER INTERESTED STAKEHOLDERS:** |  | | |
| **SHORT DESCRIPTION:** | Instructors can issue a grade report to the student at the end of the course | | |
| **PRE-CONDITION:** | The course is about to end/has ended | | |
| **TRIGGER:** | The instructor requests to issue grades. | | |
| **TYPICAL COURSE** | **Actor Action** | **System Response** | |
| **OF EVENTS:** | **Step 1**: The instructor writes a grade report and submits it. | **Step 2**: The system updates information on both students and class sides. | |
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| **ALTERNATE COURSES:** |  | | |
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| **CONCLUSION:** | The grade is issued. | | |
| **POST-CONDITION:** | The student can now view the grade report. | | |
| **BUSINESS RULES:** |  | | |
| **IMPLEMENTATION CONSTRAINTS AND SPECIFICATIONS:** | * Only the instructor and student involved can view the grade report | | |
| **ASSUMPTIONS:** |  | | |
| **OPEN ISSUES:** |  | | |

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**Version: \_\_\_1\_\_\_\_\_\_**

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| **USE CASE NAME:** | Send Class Request | | **USE CASE TYPE** |
| **USE CASE ID:** | 11 | | **Business Requirements: 🗹** |
| **PRIORITY:** | High | |  |
|  | | |  |
| **PRIMARY BUSINESS ACTOR:** | Instructor | | |
| **OTHER PARTICIPATING ACTORS:** | * System | | |
| **OTHER INTERESTED STAKEHOLDERS:** | Admin | | |
| **SHORT DESCRIPTION:** | Instructors can send a class request to the Administrator regarding a course. | | |
| **PRE-CONDITION:** | The instructor wishes to open a course | | |
| **TRIGGER:** | The instructor requests to send a request | | |
| **TYPICAL COURSE** | **Actor Action** | **System Response** | |
| **OF EVENTS:** | **Step 1**: The instructor sends the request conta containing the class schedule, class description, and class syllabus of the class they wish to teach | **Step 2**: The system notifies the admin. | |
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| **ALTERNATE COURSES:** |  | | |
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| **CONCLUSION:** | The request is sent. | | |
| **POST-CONDITION:** | The request is pending admin response. | | |
| **BUSINESS RULES:** |  | | |
| **IMPLEMENTATION CONSTRAINTS AND SPECIFICATIONS:** |  | | |
| **ASSUMPTIONS:** |  | | |
| **OPEN ISSUES:** |  | | |

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**Version: \_\_\_1\_\_\_\_\_\_**

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| **USE CASE NAME:** | Approve/Reject Class Request | | **USE CASE TYPE** |
| **USE CASE ID:** | 12 | | **Business Requirements: 🗹** |
| **PRIORITY:** | High | |  |
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| **PRIMARY BUSINESS ACTOR:** | Admin | | |
| **OTHER PARTICIPATING ACTORS:** | * System | | |
| **OTHER INTERESTED STAKEHOLDERS:** | Instructor | | |
| **SHORT DESCRIPTION:** | Administrators can approve/reject class requests sent by Instructors. | | |
| **PRE-CONDITION:** | The instructor wishes to open a course. | | |
| **TRIGGER:** | The class request is sent. | | |
| **TYPICAL COURSE** | **Actor Action** | **System Response** | |
| **OF EVENTS:** | **Step 1**: The admin approves or rejects the request. | **Step 2**: The system notifies the instructor. If approved, the system will guide the admin to add a class. | |
|  | Adds the class. |  | |
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| **ALTERNATE COURSES:** |  | | |
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| **CONCLUSION:** | The request is responded | | |
| **POST-CONDITION:** | The request is closed. | | |
| **BUSINESS RULES:** |  | | |
| **IMPLEMENTATION CONSTRAINTS AND SPECIFICATIONS:** | * Once a class is approved/rejected, a notification will be sent to the instructor reflecting the results | | |
| **ASSUMPTIONS:** | It is at the admin’s discretion whether a class will be opened. | | |
| **OPEN ISSUES:** |  | | |

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**Version: \_\_\_1\_\_\_\_\_\_**

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| --- | --- | --- | --- |
| **USE CASE NAME:** | Add/Delete Post | | **USE CASE TYPE** |
| **USE CASE ID:** | 14 | | **Business Requirements: 🗹** |
| **PRIORITY:** | Medium | |  |
|  | | |  |
| **PRIMARY BUSINESS ACTOR:** | Any user | | |
| **OTHER PARTICIPATING ACTORS:** | * System | | |
| **OTHER INTERESTED STAKEHOLDERS:** |  | | |
| **SHORT DESCRIPTION:** | Users can add/delete posts on the forum. | | |
| **PRE-CONDITION:** |  | | |
| **TRIGGER:** |  | | |
| **TYPICAL COURSE** | **Actor Action** | **System Response** | |
| **OF EVENTS:** | **Step 1**: The user adds a post/deletes a post they sent. | **Step 2**: The post information is updated. | |
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| **ALTERNATE COURSES:** |  | | |
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| **CONCLUSION:** | The post is sent/deleted. | | |
| **POST-CONDITION:** | The post information is updated. | | |
| **BUSINESS RULES:** |  | | |
| **IMPLEMENTATION CONSTRAINTS AND SPECIFICATIONS:** | * Only administrators can add/delete public posts by anyone | | |
| **ASSUMPTIONS:** |  | | |
| **OPEN ISSUES:** |  | | |

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| --- | --- | --- | --- |
| **USE CASE NAME:** | Add/Delete Comment | | **USE CASE TYPE** |
| **USE CASE ID:** | 13 | | **Business Requirements: 🗹** |
| **PRIORITY:** | Medium | |  |
|  | | |  |
| **PRIMARY BUSINESS ACTOR:** | Any user | | |
| **OTHER PARTICIPATING ACTORS:** | * System | | |
| **OTHER INTERESTED STAKEHOLDERS:** |  | | |
| **SHORT DESCRIPTION:** | Users can add/delete comments on a post. | | |
| **PRE-CONDITION:** |  | | |
| **TRIGGER:** |  | | |
| **TYPICAL COURSE** | **Actor Action** | **System Response** | |
| **OF EVENTS:** | **Step 1**: The user adds a comment/deletes a comment they sent. | **Step 2**: The post information is updated. | |
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| **ALTERNATE COURSES:** |  | | |
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| **CONCLUSION:** | The post is sent/deleted. | | |
| **POST-CONDITION:** | The post information is updated. | | |
| **BUSINESS RULES:** |  | | |
| **IMPLEMENTATION CONSTRAINTS AND SPECIFICATIONS:** | * Only administrators can add/delete public comments by anyone * Comments are not anonymous | | |
| **ASSUMPTIONS:** |  | | |
| **OPEN ISSUES:** |  | | |

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**Version: \_\_\_1\_\_\_\_\_\_**

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| --- | --- | --- | --- |
| **USE CASE NAME:** | Search for Class | | **USE CASE TYPE** |
| **USE CASE ID:** | 15 | | **Business Requirements: 🗹** |
| **PRIORITY:** | Medium | |  |
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| **PRIMARY BUSINESS ACTOR:** | Student | | |
| **OTHER PARTICIPATING ACTORS:** | * System | | |
| **OTHER INTERESTED STAKEHOLDERS:** |  | | |
| **SHORT DESCRIPTION:** | Students can search for information on classes offered within their student account | | |
| **PRE-CONDITION:** |  | | |
| **TRIGGER:** |  | | |
| **TYPICAL COURSE** | **Actor Action** | **System Response** | |
| **OF EVENTS:** | **Step 1**: The student searches for a class by name or other relevant information | **Step 2**: Searches the database and shows results | |
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| **ALTERNATE COURSES:** |  | | |
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| **CONCLUSION:** | The course(s) are displayed | | |
| **POST-CONDITION:** | The course(s) are displayed | | |
| **BUSINESS RULES:** |  | | |
| **IMPLEMENTATION CONSTRAINTS AND SPECIFICATIONS:** |  | | |
| **ASSUMPTIONS:** |  | | |
| **OPEN ISSUES:** |  | | |

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| **USE CASE NAME:** | Search for Instructor | | **USE CASE TYPE** |
| **USE CASE ID:** | 16 | | **Business Requirements: 🗹** |
| **PRIORITY:** | Medium | |  |
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| **PRIMARY BUSINESS ACTOR:** | Student | | |
| **OTHER PARTICIPATING ACTORS:** | * System | | |
| **OTHER INTERESTED STAKEHOLDERS:** |  | | |
| **SHORT DESCRIPTION:** | Students can search for information on instructors offered within their student account | | |
| **PRE-CONDITION:** |  | | |
| **TRIGGER:** |  | | |
| **TYPICAL COURSE** | **Actor Action** | **System Response** | |
| **OF EVENTS:** | **Step 1**: The student searches for an instructor by name or other relevant information | **Step 2**: Searches the database and shows results | |
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| **ALTERNATE COURSES:** |  | | |
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| **CONCLUSION:** | The instructor(s) are displayed | | |
| **POST-CONDITION:** | The instructor(s) are displayed | | |
| **BUSINESS RULES:** |  | | |
| **IMPLEMENTATION CONSTRAINTS AND SPECIFICATIONS:** |  | | |
| **ASSUMPTIONS:** |  | | |
| **OPEN ISSUES:** |  | | |