CS408: Product Backlog

Problem Statement:

There exists a need for an application that connects students and tutors on campus quickly.

Background Information:

As a student at Purdue, there is a good chance you will run into trouble with one of your courses. The university offers many resources to students, such as professor and ta office hours. However, when that is not enough many students seek out the help of a tutor. Typically, students find their tutor through ads on campus, or by recommendation. After a series of emails, a deal is arranged and the first meeting takes place.

Our application proposes a better way for students and tutors to connect. Students and tutors will be able to register with the courses they are seeking to participate in. By asking tutors to list the days and times they are available, students can find a tutor who can help them as soon as possible. Also, our application takes some of the commitment out of the tutoring relationship. We empower students to become tutors by allowing them flexible hours, and one-off sessions with students. Additionally, students will be able to provide feedback on tutors after a session so that future students know what to expect.

Environment:

Visual C# and .NET

Libraries?

Databases?

Functional Requirements:

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| Backlog ID | Functional Requirement | Hours |
| 1 | As a student, I would like to create an account. | 4 |
| 2 | As a student, I would like to see all available tutors. | 3 |
| 3 | As a student, I would like to be able to filter tutors. | 5 |
| 4 | As a student, I would like to be able to review tutors. | 6 |
| 5 | As a student, I would like to be able to see all reviews of a tutor. | 3 |
| 6 | As a tutor, I would like a create an account. | 5 |
| 7 | As a tutor, I would like to list the classes I can tutor. | 1 |
| 8 | As a tutor, I would like to list the days I can tutor. | 1 |
| 9 | As a tutor, I would like to list the times I can tutor. | 1 |
| 10 | As a tutor, I would like to list the price I tutor for. | 1 |
| 11 | As a tutor, I would like to be able to create a bio. | 4 |
| 12 | As a tutor, I would like to be able to see my rating. | 3 |
| 13 | As an admin, I would like the ability to remove user or tutor accounts. | 2 |

Nonfunctional Requirements:

The application should be easy to register for.

The application should be able to handle many students.

The application should be able to handle many tutors.

The application should provide and easy list of all tutors, sorted by user preference.

The application should protect user data.

The application should allow of easy registration and cancellation of sessions.

Use Cases:

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| **Case Description** | **Action** | **System Response** |
| Use Case #1: Student Acct. |  |  |
|  | Click ‘Create Account’ |  |
|  |  | Account creation page loads. |
|  | Enter account information. |  |
|  | Select ‘Student’ type. |  |
|  |  | Information validates. |
|  |  | Ask for student .edu email. |
|  | Enter .edu email into dialog. |  |
|  |  | Confirm .edu email. |
|  |  | Display success message. |
|  |  | Redirect to home. |

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| **Case Description** | **Action** | **System Response** |
| Use Case #2: View Tutors |  |  |
|  | Visit ‘All Tutors’ Page |  |
|  |  | Load list of all tutors by name. |

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| **Case Description** | **Action** | **System Response** |
| Use Case #3: Filter Tutors |  |  |
|  | Visit ‘All Tutors’ Page |  |
|  | Select for option from dropdown |  |
|  |  | Filter by Subject |
|  |  | Filter by Tutor Name |
|  |  | Filter by Rating |

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| **Case Description** | **Action** | **System Response** |
| Use Case #4: Review Tutors |  |  |
|  | Visit ‘All Tutors’ Page |  |
|  | Select Tutor, Select ‘Visit Bio’ |  |
|  |  | Load Tutor Page and Bio. |
|  | Select ‘Review Tutor’ |  |
|  |  | Load Review Form |
|  | Give a rating out of 5, and a short description of the tutor. |  |
|  |  | Comment is sent for admin approval. |
|  |  | Comment is added to tutor page. |

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| **Case Description** | **Action** | **System Response** |
| Use Case #5: View Reviews |  |  |
|  | Visit ‘All Tutors’ Page |  |
|  | Select Tutor, Select ‘Visit Bio’ |  |
|  |  | Load Tutor Page and Bio. |
|  | Select ‘Tutor Reviews’ |  |
|  |  | Load List of Reviews in page. |

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| **Case Description** | **Action** | **System Response** |
| Use Case #6: Tutor Acct. |  |  |
|  | Click ‘Create Account’ |  |
|  |  | Account creation page loads. |
|  | Enter account information. |  |
|  | Select ‘Tutor type. |  |
|  |  | Information validates. |
|  |  | Ask for student .edu email. |
|  | Enter .edu email into dialog. |  |
|  |  | Confirm .edu email. |
|  |  | Display success message. |
|  |  | Redirect to home. |

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| **Case Description** | **Action** | **System Response** |
| Use Case #7: Tutor Classes. |  |  |
|  | Log-in to tutor account. |  |
|  |  | Load tutor homepage. |
|  | Select ‘My Account’ |  |
|  |  | Load account information frame. |
|  | Select ‘Edit’ by the list of classes. |  |
|  | Update the classes. |  |
|  | Select Save. |  |
|  |  | Update tutoring courses. |
|  |  | Load tutor homepage. |

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| **Case Description** | **Action** | **System Response** |
| Use Case #8: Tutor Days. |  |  |
|  | Log-in to tutor account. |  |
|  |  | Load tutor homepage. |
|  | Select ‘My Account’ |  |
|  |  | Load account information frame. |
|  | Select ‘Edit’ by the list of days. |  |
|  | Update the days. |  |
|  | Select Save. |  |
|  |  | Update tutoring days. |
|  |  | Load tutor homepage. |

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| **Case Description** | **Action** | **System Response** |
| Use Case #9: Tutor Times. |  |  |
|  | Log-in to tutor account. |  |
|  |  | Load tutor homepage. |
|  | Select ‘My Account’ |  |
|  |  | Load account information frame. |
|  | Select ‘Edit’ by the list of times. |  |
|  | Update the classes. |  |
|  | Select Save. |  |
|  |  | Update tutoring times. |
|  |  | Load tutor homepage. |

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| **Case Description** | **Action** | **System Response** |
| Use Case #10: Tutor Price. |  |  |
|  | Log-in to tutor account. |  |
|  |  | Load tutor homepage. |
|  | Select ‘My Account’ |  |
|  |  | Load account information frame. |
|  | Select ‘Edit’ by the list of prices |  |
|  | Update the price. |  |
|  | Select Save. |  |
|  |  | Update tutoring price. |
|  |  | Load tutor homepage. |

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| **Case Description** | **Action** | **System Response** |
| Use Case #11: Tutor Bio. |  |  |
|  | Log-in to tutor account. |  |
|  |  | Load tutor homepage. |
|  | Select ‘My Account’ |  |
|  |  | Load account information frame. |
|  | Select ‘Edit’ by the bio text box. |  |
|  | Update the tutor bio. |  |
|  | Select Save. |  |
|  |  | Update tutor bio. |
|  |  | Load tutor homepage. |

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| **Case Description** | **Action** | **System Response** |
| Use Case #12: Tutor Rating |  |  |
|  | Log-in to tutor account. |  |
|  |  | Load tutor homepage. |
|  | Select ‘My Account’. |  |
|  |  | Load account information frame. |
|  | View Tutor Rating. |  |

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| **Case Description** | **Action** | **System Response** |
| Use Case #13: Admin Access |  |  |
|  | Log-in to admin account |  |
|  |  | Load admin homepage |
|  | Select ‘Account Admin’ |  |
|  |  | Load account admin page. |
|  | Select ‘X’ by account name. |  |
|  |  | Delete selected account. |
|  |  | Reload accounts. |