Product Backlog

Team 3

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Problem Statement

With the thousands of classes available on Purdue University’s campus, it is sometimes difficult to decide which ones to take and who to take them with. Our solution is to create a centralized place for students to anonymously write a review for any class available. Our product will be designed for Purdue students to make assessments on what courses to take based off of ratings from other students.

Background Information

Students often ask their friends who have already taken the classes how difficult it was, what the professor is like, and if they recommend taking it. However, it is impossible to have a friend who has taken every class on campus. Ratemyprofessor.com is an option for reviewing professors, but it wasn’t designed for reviewing courses. While taking a class, students are provided the option, through the university, to write a review for their course, but it is strictly for the professor’s benefit; the reviews are not available to be seen by other students. There are some websites, like www.locazu.com, that offer a way to review a course you have taken, but these sites are not Purdue specific and it can be difficult to locate relevant reviews.

Environment

The development environment is simply a machine with Ruby on Rails installed. Rails can be installed on Windows, Mac, or Linux OS’s. The languages included in this project are Ruby on Rails, HTML5, Javascript, JQuery, and CSS. The database we use is SQlite in development and PostgreSQL on our live website.. Bootstrap will be used to simplify the styling of the web pages.

Requirements

Functional

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| Backlog  ID | Functional Requirements | Hours |
| 1 | As a user, I would like to publish a review for any course I have taken at Purdue University | 8 |
| 2 | As a user, I would like to be able to view reviews for a course (content would include some or all the fields filled in by the reviewer: professor, grade, rating, TAs, etc…) | 12 |
| 3 | As a user, I would like to be able to search for courses I have taken at Purdue University or courses or a department I am interested in taking courses in. | 16 |
| 4 | As a user, I would like to rate my class using a star ranking (1-5) based on whatever aspects I feel (difficulty, workload, fairness of grade received, etc…) and see the averages of all students | 8 |
| 5 | As a user, I would like to be able to create an account and log in with my purdue email. | 8 |
| 6 | As a user, I would like to be able to say who my professor(s) was/were when I give a review on a class | 6 |
| 7 | As a user, I would like to be able to change my password if I forget my password | 4 |
| 8 | As a user, I would like to be able to flag reviews as inappropriate content | 4 |
| 9 | As a user, I would like to see when a review was published alongside the review (Month Day, Year) | 2 |
| 10 | As a user, I would like to know the average grade that students received in the class (assuming reviewers have filled in that field in their review) | 4 |
| 11 | As a user, I would like to upload and see uploaded syllabi for the class | 4 |
| 12 | As a user, I would like to add the names of TA’s in my review | 2 |
| 13 | As a user, I would like to help decide if a review is helpful or not and if it is funny | 4 |
| 14 | As a user, I would like to be able to see the overall top rated courses on the home page and go to that courses page. | 6 |
| 15 | As a user, I would like to be able to ask questions about a class and have other users answer them | 6 |
| 16 | As a user, I would like to give an estimated amount of hours spent each week on the class work outside of class | 2 |
| 17 | As a user, I would like to be able to see whether the textbook for the class was required (assuming reviewers have filled in that field in the their review) | 2 |
| 18 | As a user, I would like to see a student provided course description that I or anyone else can edit. | 6 |
| 19 | As a user, I would like to provide feedback to the development team about their website, whether I am logged in or not | 4 |
| 20 | As a user, I would like to upvote or downvote the answers to questions | 4 |
| 21 | As an admin, I would like a page to see all the flagged posts so I can decide what to do when them. | 4 |
| 22 | As a user, if I flag a review along with enough other users, the review should be hidden from the list of reviews that are displayed. | 2 |

Non-Functional

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| Backlog ID | Non-Functional Requirements |
| 1 | The web application is compatible with all major browsers |
| 2 | The web application should have a modern style to it |
| 3 | The web application should be intuitive |
| 4 | The web application should be compatible with any screen size. |
| 5 | Logins and passwords should be encrypted. |
| 6 | When our website is being hosted it should come back up if the servers go down. |
| 7 | We should have a backup of our databases just in case the databases are lost |

Use Cases

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| **Case: Write a review** | **System Responses** |
| 1. Type the course name/number into the search bar | 2. suggestions appear as the user types into the searchbar |
| 3. click submit | 4. search results are loaded sorted by rating and relation to the searched class |
| 5. click on the course to write a review | 6. the course page is opened |
| 7. type the review, give a rating, fill in other fields (required fields: rating and review) (optional fields: professor name, TA names, hours spent on work, upload syllabus, avg. grade in class, etc…) |  |
| 8. click submit | 9. the review and rating is published to the course’s page and timestamped (dd/mm/year hh:mm \*24hour clock EST) |

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| **Case: Read a Course review** | **System Responses** |
| 1. Type the course name/number into the search bar | 2. suggestions appear as the user types into the searchbar |
| 3. click submit | 4. search results are loaded sorted by rating and relation to the searched class |
| 5. click on the course to write a review | 6. the course page is opened |
| 7. The reviews with the average rating, Q/A and information is displayed on the page for the Course searched for |  |

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| **Case: Search a Department** | **System Responses** |
| 1. Type a department into the search bar | 2. suggestions appear as the user types into the searchbar |
| 3. click submit | 4. search results are loaded sorted by rating and relation to the searched department |
| 5. click on the course to view | 6. the course page is opened |
| 7. The reviews with the average rating, Q/A and information is displayed on the page for the Course clicked on |  |

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| **Case: Vote on answers to questions** | **System Responses** |
| 1. log into the site | 2. home screen is loaded showing top overall rated classes |
| 3. navigate to a course page |  |
| 4. click on the helpful or not helpful buttons on a question | 5. the corresponding counter is incremented for that answer and the color changes to show the button was clicked |

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| **Case: Sign up** | **System Responses** |
| 1. Click sign up button | 2. Sign up webpage loads |
| 3. Type in email and password of choice |  |
| 4. click submit button | 5. Check to make sure email is not a duplicate, and it is also a purdue.edu email. Another check is ensuring the password length >=8. |
|  | 6. If #5 passes, send user to home page. Else, send user back to signup page with appropriate error. |

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| **Case: Log In** | **System Responses** |
| 1. Click login button | 2. Login webpage loads |
| 3. If the password is forgotten, click the password recovery button | 4. Load password recovery page. |
| 5. Type in email to recover password |  |
| 6. Click submit | 7. Verify the email is registered, then send email to user with a login link to allow them to change their password |
| 8. If password is not forgotten, type email and password | 9. Check to make sure the password and email match |
|  | 10. 6. If #9 passes, send user to home page. Else, send user back to login page with appropriate error. |
| 11. If link from email is gone, the user enters in a new password and presses submit | 12. The database is updated with the new password |

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| **Case: Forgot Password** | **System Responses** |
| 1. Click forgot password and enter email | 2. Email is sent a link to change password |
| 3. Go to email and click on link | 4. Page is loaded to update password |
| 4. Change your password to a valid password | 5. Password is updated in the database |

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| **Case: Provide feedback for flagged reviews** | **System Responses** |
| 1. log into the admin account | 2. admin privileges are unlocked |
| 3. navigate to the flagged responses page | 4. If there are flagged responses the page where flagged reviews and answers are posted is loaded otherwise a message saying there is nothing is displayed. |
| 5. the admin can confirm or disregard flagged reviews | 6. confirmed reviews are deleted and disregarded reviews have their flagged count reset to 0 and are visible again to users |

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| **Case: Provide feedback for reviews** | **System Responses** |
| 1. Navigate to a course page |  |
| 2. Tap “yes” or “no” as to whether or not a review is helpful | 3. An alert is flashed thanking the user for the feedback, the button will change color showing it was selected, and the corresponding counter is incremented or decremented |

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| **Case: Flag review as inappropriate** | **System Responses** |
| 1. Navigate to a course page |  |
| 2. Tap on the flag next to a review | 3. Pop up comes up confirming that you are going to flag this review as inappropriate |
| 4. Click on confirm for pop up | 5. the corresponding counter is incremented. If the count is 3, the review is hidden and sent to site administrators for review |

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| **Case: Ask questions about a course** | **System Responses** |
| 1. Navigate to course page |  |
| 2. Type into “new question” field a new question |  |
| 3. click submit | 4. The question is added to the question database, posted to the page above the reviews, and a reply field is generated below the question |

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| **Case: Respond to questions about a course** | **System Responses** |
| 1. Navigate to course page |  |
| 2. Click in the reply field below a question and type out a response |  |
| 3. Click submit | 4. the reply is posted to the page under the question and another reply field is generated below the question |

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| **Case: Provide feedback to site admins** | **System Responses** |
| 1. Click on the “contact the Devs” button | 2. The contact page is loaded |
| 3. Fill out the email (if not logged in), subject, body fields | 4. If you are logged in, the email field does not show, if you are not, the email field does show up |
| 5. click send | 6. an email is sent to the administrator account |

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| **Case: Edit a course description** | **System Responses** |
| 1. log into the website | 2. home screen is shown with top overall courses |
| 3. navigate to a course page |  |
| 4. click on the course description field to edit |  |
| 5. click on the submit button when finished editing the description | 6. the new description is loaded as the courses description |

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| **Case: Download a syllabus** | **System Responses** |
| 1. Navigate to a course page that interests you |  |
| 2. click on the button to download the syllabus located in a review | 3. the syllabus is downloaded |