2.6 Sprint Backlogs

## 2.6.1 Sprint 1

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| **User Story ID** | **User Story** | **Task ID** | **Task Breakdown** | **MoSCoW** | **Developer** |
| PBI #1 | As a student, I want to be able to log in to the system so that I can access the system using my account. | 1  2  3  4 | 1.Create login frontend file    2.Create login backend file    3.Create table to store database    4.Use JWT token | MUST | 1.Goh Yi Wen  2.Yap Kar Xuan |
| PBI #16 | As a tutor, I want to be able to log in to the system so that I can access the system using my account. | 1  2  3  4 | 1.Create login frontend file    2.Create login backend file    3.Create table to store database    4.Use JWT token | MUST | 1.Goh Yi Wen  2.Yap Kar Xuan |
| PBI #31 | As an admin, I want to be able to log in to the system, so that I can make changes on students and tutors. | 1  2  3  4 | 1.Create login frontend file    2.Create login backend file    3.Create table to store database    4.Use JWT token | MUST | 1.Goh Yi Wen  2.Yap Kar Xuan |
| PBI#2 | As a student, I want to be able to reset my password in case I have forgotten. | 1,2,3,4,5,6,7,8 | 1. Create a page for reset password.  2. Provide a textbox for the user to type their password and a submit button.  3. Submitting will check the student’s email if it matches any email in the student table.  4. If no, then it throws an error saying there is no user record found.  5. If yes, generate a random password.  6. Send email with the generated password.  7. Hash the password.  8. Store the hashed password into the student table | MUST | 1.Kumareswren Ragh |
| PBI #17 | As a tutor, I want to be able to reset password if I forgot my password so that I can recover my account. | 1,2,3,4,5,6,7,8 | 1. Create a page for reset password.  2. Provide a textbox for the user to type their password and a submit button.  3. Submitting will check the tutor’s email if it matches any email in the tutor table.  4. If no, then it throws an error saying there is no user record found.  5. If yes, generate a random password.  6. Send email with the generated password.  7. Hash the password.  8. Store the hashed password into the tutor table | MUST | 1.Kumareswren Ragh |
| PBI #32 | As an admin, I want to reset my password if forgot password, so that I can login with the new password again. | 1,2,3,4,5,6,7 | 1. Create a page for reset password.  2. Provide a textbox for the user to type their password and a submit button.  3. Submitting will check the admin’s email if it matches any email in the admin table.  4. If no, then it throws an error saying there is no user record found.  5. If yes, generate a random password.  6. Send email with the generated password.  7. Store the password into the admin table | MUST | 1.Kumareswren Ragh |
| PBI #9 | As a student, I want to be able to view my dashboard so that I can view/interact with the features. | 1  2  3  4 | 1.Create dashboard page that student can access when they log in successfully.  2.Redirect to student dashboard if the logged in account is registered as student.  3.Create sidebar and footer with items with links that are clickable as intended.  4.Provide an indicator at the top right of dashboard page that shows their registered first and last name. | MUST | 1.Sri Valsan |
| PBI #10 | As an admin, I want to be able to view my dashboard so that I can interact with the features. | 1  2  3  4 | 1.Create dashboard page that admin can access when they log in successfully.  2.Redirect to admin dashboard if the logged in account is registered as admin.  3.Create sidebar and footer with items with links that are clickable as intended.  4.Provide an indicator at the top right of dashboard page that shows their registered first and last name. | MUST | 1.Sri Valsan |
| PBI #11 | As a student, I want to be able to log out so that I can prevent unauthorized access to my account. | 1,2,3 | 1. A logout button in the sidepanel.    2. Clicking on it will make the jwt token invalid.    3. Redirect to login page. | MUST | 1.Sri Valsan  2. Kumareswren Ragh  3.Mohamed Adam |
| PBI #12 | As a tutor, I want to be able to log out so that I can prevent unauthorized access to my account. | 1,2,3 | 1. A logout button in the sidepanel.  2. Clicking on it will make the jwt token invalid.    3. Redirect to login page. | MUST | 1.Sri Valsan  2. Kumareswren Ragh  3.Mohamed Adam |
| PBI #13 | As an admin, I want to be able to log out so that I can prevent unauthorized access to my account. | 1,2,3 | 1. A logout button in the sidepanel.  2. Clicking on it will make the jwt token invalid.  3. Redirect to login page. | MUST | 1.Sri Valsan  2. Kumareswren Ragh  3.Mohamed Adam |

## 2.6.2 Sprint 2

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| **User Story ID** | **User Story** | **Task ID** | **Task Breakdown** | **MoSCoW** | **Developer** |
| PBI #35 | As an admin, I want to be able register student and tutor, so that they can login to their dashboard. | 1  2  3  4 | 1.Create register frontend file    2.Create register backend file    3.Create table to store database    4.Use JWT token | MUST | 1.Goh Yi Wen  2.Yap Kar Xuan |
| PBI #33 | As an admin, I want to be able to assign students to tutors, so that students can be enrolled to a course. | 1,2,3,4,5 | 1. Create a table showing all the students without tutor, and a dropdownlist of tutor at the end of each student record.  2. Admin can choose tutor for each student in bulk using the dropdown.  3. Submit button to insert the record of the assignment in the StudentAssignment table.  4. Send email regarding the assignment to the tutor and student.  5. Shows an alert box saying that the assignment was successful. | MUST | 1.Kumareswren Ragh |
| PBI #26 | As a tutor, I want to be able to view my student list so that I can know which student is assigned to me. | 1  2  3  4 | 1.Create tutor view student list frontend file    2.Create tutor view student list backend file    3.Create table to store database    4.Use JWT token | MUST | 1.Goh Yi Wen  2.Yap Kar Xuan |
| PBI #36 | As an admin, I want to be able to create variable courses so that students can be enrolled into their courses. | 1  2  3  4 | 1.Create admin create course frontend file    2.Create admin create course backend file    3.Create courses table to store database    4.Use JWT token | MUST | 1.Yap Kar Xuan |
| PBI #38 | As an admin, I want to be able to assign tutor to a course so that all the courses have a tutor assigned. | 1,2,3 | 1. Add a new field, dropdownlist of tutors in the create course component.2. Adding a new attribute (tutorID) to the course table in database.  3. Creating course will add the tutorID together. | MUST | 1.Kumareswren Ragh |
| PBI #30 | As a tutor, I want to be able to view my course list so that I can know which course is assigned to me. | 1  2  3  4 | 1.Create tutor view course list frontend file    2.Create tutor view course list backend file    3.Create table to store database    4.Use JWT token | MUST | 1.Goh Yi Wen |
| PBI #40 | As a tutor, I want to be able to assign students to my course so that the students have access to the course. | 1,2,3 | 1. Show a table of student assigned to the tutor with a checkbox at the end of each student record.  2. Selecting the students and clicking submit will insert a new record in the course student table.  3. Sends an email to the students who are assigned. | MUST | 1.Kumareswren Ragh |
| PBI #39 | As a student, I want to be able to view my courses so that I can access my course page. | 1, 2 | 1. A table of courses assigned to the student.  2. Clicking on the course will redirect to the respective course component using the courseID. | MUST | 1.Kumareswren Ragh |
| PBI #24 | As a tutor, I want to be able to create tutorials so that I can share the exercises with my students. | 1  2  3  4 | 1.Create tutorials tab inside Courses page.  2.Create form to allow tutor to browse files to upload as tutorial.  3.Create text areas that hold tutor input as tutorial title and tutorial description.  4.Create email sending feature when tutor uploads tutorials, so that the students who are assigned to the course will receive an email indicating the creation of a tutorial by tutor. | MUST | 1.Sri Valsan |
| PBI #23 | As a tutor, I want to be able to upload notes with comments so that I can share my work with my students. | 1  2  3  4 | 1.Create notes tab inside Courses page.  2.Create form to allow tutor to browse files to upload as notes.  3.Create text areas that hold tutor input as note title and note description.  4.Create email sending feature when tutor uploads notes, so that the students who are assigned to the course will receive an email indicating the upload of notes by tutor. | MUST | 1.Sri Valsan |
| PBI #8 | As a student, I want to be able to create a blog with a title and content so that I can share my thoughts and ideas. | 1  2  3 | 1.Create Blogs tab inside Blogs page.  2. Create form to allow student to insert into input fields for the blog title and description, and a file upload field for the blog image.  3.Create a “Publish” button so it enables the student to submit the created blog post. | MUST | 1.Mohamed Adam |
| PBI #25 | As a tutor, I want to be able to create a blog with a title and content so that I can share my thoughts and ideas. | 1  2  3 | 1.Create Blogs tab inside Blogs page.  2. Create form to allow tutor to insert into input fields for the blog title and description, and a file upload field for the blog image.  3.Create a “Publish” button so it enables the tutor to submit the created blog post. | MUST | 1.Mohamed Adam |
| PBI #41 | As a tutor, I want to be able to view created blogs so that I can see full content of the clicked blog. | 1  2 | 1.Navigate to Blogs tab and click Blogs page.  2.Click “Read More” on the blog listed and redirects to detailed blog page. | MUST | 1.Mohamed Adam |
| PBI #42 | As a student, I want to be able to view created blogs so that I can see full content of the clicked blog. | 1  2 | 1.Navigate to Blogs tab and click Blogs page.  2.Click “Read More” on the blog listed and it redirect to detailed blog page. | MUST | 1.Mohamed Adam |
| PBI #7 | As a student, I want to be able to upload tutorials (answers) with comments so that I can share my work with my tutor. | 1  2  3  4  5  6  7  8 | 1.Create notes tab inside Courses page.  2.Create table that displays all created tutorials by tutor.  3.Provide ‘download’ button for each tutorial which allows student to download and view the tutorial file.  4. Provide ‘submit’ button that allows student to submit their answer to a specific tutorial.  5.Create form that allows student to browse for files to upload as tutorial answer.  6.Create text area that hold student input for title of their tutorial answer.  7.Create email sending feature when student uploads tutorial answer, so that their tutor is notified of the submission, and can subsequently check it and also add remarks to it.  8.Provide students with ability to delete their tutorial answer submission should they choose to do so, with a ‘delete’ button. | MUST | 1.Sri Valsan |
| PBI #37 | As a student, I want to be able to view or download the notes uploaded by tutor so that I can keep up with the syllabus. | 1  2  3 | 1.Create notes tab in courses page.  2.Display table of all notes uploaded by tutor for the chosen course, with the title of each note.  3.Provide ‘download’ button that allows students to download the note file by clicking on it. | MUST | 1.Sri Valsan |

## 2.6.3 Sprint 3

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| **User Story ID** | **User Story** | **Task ID** | **Task Breakdown** | **MoSCoW** | **Developer** |
| PBI  #3 | As a student, I want to be able to message my tutor so that I can communicate with them. | 1  2  3  4 | 1.Create ‘Chat’ item in side navigation bar.  2.Create UI display that is display upon clicking of ‘Chat’ link, which shows an overview of student’s communication with their tutor.  3.Display name of their tutor and the unread messages that they have received from tutor (if any).  4.Create ‘reply’ button that when clicked, shows a form that has a text are which holds input, into which students can type their message into. | MUST | 1.Sri Valsan  2. Mohamed Adam |
| PBI  #4 | As a student, I want to be able to request a meeting with my tutor so that I can schedule a time to meet with them. | 1  2  3  4 | 1.Create student request meeting frontend file    2.Create student request meeting backend file    3.Create meeting student table to store database    4.Use JWT token | MUST | 1.Yap Kar Xuan |
| PBI  #5 | As a student, I want to be able to check the meeting status with my tutor so that I can know the response from the tutor. | 1  2  3  4 | 1.Create student request meeting status frontend file    2.Create student request meeting status backend file    3.Create meeting status table to store database    4.Use JWT token | MUST | 1.Yap Kar Xuan |
| PBI  #6 | As a student, I want to be able to view the records of the meeting with my tutor so that I can know when the past meetings were conducted. | 1  2  3  4 | 1.Create student meeting history frontend file    2.Create student meeting history backend file    3.Create student meeting history table to store database    4.Use JWT token | MUST | 1.Yap Kar Xuan |
| PBI  #14 | As a student, I want to be able to view a dashboard that shows the number of messages in the last 7 days so that I can know the number of messages received in a week. | 1,2 | 1. Add a card in the dashboard component.2. Populate the card with sql query from the messages table by filtering using the message time (count messages for 7 days) attribute and the student ID | MUST | 1.Kumareswren Ragh |
| PBI  #15 | As a student, I want to be able to view my message history with my tutor so that I can keep in track with our communication. | 1  2  3  4 | 1.Create ‘view message history’ button on the student’s overview of their chat with tutor.  2.Create UI that will show the communication with tutor, in chat bubbles with different colours and direction indicating sender and receiver.  3. Provide the timestamp of each message in each bubble.  4.Reduce the number of unread messages indicator in previous (overview) page after student has viewed the message history with tutor. | MUST | 1.Sri Valsan  2.Mohamed Adam |
| PBI  #18 | As a tutor, I want to be able to message my students so that I can communicate with them. | 1  2  3  4  5  6  7  8  9  10 | 1.Create ‘Chat’ item in side navigation bar.  2.Create UI display that is display upon clicking of ‘Chat’ link, which shows an overview of tutors’s communication with their students.  3.Display names of their students and the unread messages that they may have received from any of their students.  4.Create ‘reply’ button next to each student, that when clicked, shows a form that has a text are which holds input, into which tutor can type their message into.  5.Create ‘start new conversation’ button, which tutor can click.  6.Create UI display that tutor gets redirected to when they click the ‘start new conversation’ button.  7.Allow tutor to search for a specific student using the search filter in the UI.  8.Provide tutor to click on a specific student of theirs.  9.Display the first and last name of their chosen student, to indicate exactly who will be the recipient of their message.  10.Create text area under the name of the recipient, which holds the tutor’s message input to be sent to the student. | MUST | 1.Sri Valsan  2.Mohamed Adam |
| PBI  #21 | As a tutor, I want to be able to accept meeting requests so that I can hold meetings with my students. | 1  2  3  4 | 1.Create tutor meeting frontend file.    2.Create tutor meeting backend file.    3.Create table to store database.    4.Use JWT token | MUST | 1.Goh Yi Wen |
| PBI  #22 | As a tutor, I want to be able to view the list of meetings with my students so that I can know when the past/upcoming meetings is. | 1  2  3  4 | 1.Create tutor view meeting list frontend file    2.Create tutor view meeting list backend file    3.Create table to store database    4.Use JWT token | MUST | 1.Goh Yi Wen |
| PBI  #27 | As a tutor, I want to be able to view the number of messages in the last 7 days so that I can know the number of messages received in a week. | 1,2 | 1. Add a card in the dashboard component.2. Populate the card with sql query from the messages table by filtering using the message time (count messages for 7 days) attribute and the tutor ID | MUST | 1.Kumareswren Ragh |
| PBI  #28 | As a tutor, I want to be able to view the average number of messages so that I can know the average number of messages sent by each student. | 1,2 | 1. Add a card in the dashboard component.2. Populate the card with sql query from the messages table by using average formula and the tutor ID | MUST | 1.Kumareswren Ragh |
| PBI  #29 | As a tutor, I want to see a list of students that haven't been active for 7 and 28 days so that I can know the inactive students by week and month. | 1,2 | 1. Add a table in the dashboard component.2. Populate the card with sql query from the student table by filtering using the last\_login attribute for 7 and 28 days | MUST | 1.Kumareswren Ragh |
| PBI  #34 | As an admin, I want to be able to access the student's and tutor's dashboard, so that I can see their dashboard. | 1,2 | 1. Show a list of tutor and another list of student with a button at the end of each record to view the dashboard.  2. Clicking on the button will redirect to the selected user’s dashboard using the TID or SID. | MUST | 1.Kumareswren Ragh |
| PBI  #19 | As a tutor, I want to be able to view my message history with specific students so that I can keep in track with our communication. | 1  2  3  4 | 1.Create ‘view message history’ button in tutor’s chat overview page, (the button is in tha table under header ‘Overview of your Conversations’, which is loaded upon clicking of ‘Chat’ item in the sidebar.  2.Create UI that will show the communication with a chosen student, in chat bubbles with different colours and direction indicating sender and receiver.  3. Provide the timestamp of each message in each bubble.  4.Reduce the number of unread messages sent by the currently chosen student, indicated in previous (overview) page after tutor has viewed the message history with the student. | MUST | 1.Sri Valsan |
| PBI  #20 | As a student, I want to be able to be aware every time a tutor starts a new conversation with me so that I'm aware and can respond quickly. | 1  2  3  4 | 1.Create email sending feature that sends email to a student every time a tutor starts a new conversation with them.  2.Indicate in the email that is is sent by e  ‘e-Tutor’.  3.Notify the student in the email, that their tutor has started a new conversation with them.  4.Notify the student that they can view the conversation by accessing the e-Tutor webpage. | MUST | 1.Sri Valsan |

## 2.6.4 Sprint 4

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| **User Story ID** | **User Story** | **Task ID** | **Task Breakdown** | **MoSCoW** | **Developer** |
| PBI#43 | As an admin, I want to be reminded of my last login date and time, or greeted if this is my first time logging in, so that I can enhance security and keep track of my account activity. | 1  2  3  4 | 1. Login as admin and access the dashboard. 2. View the sidebar. 3. Check Last Login If it's not the first login, display the last login time in the sidebar. 4. If it's the first login, display a welcome message instead in the sidebar. | SHOULD | 1.Mohamed Adam |
| PBI#44 | As a student, I want to be reminded of my last login date and time, so that I can enhance security and keep track of my account activity. | 1  2  3  4 | 1. Login as student and access the dashboard. 2. View the sidebar. 3. Check Last Login If it's not the first login, display the last login time in the sidebar. 4. If it's the first login, display a welcome message instead in the sidebar. | SHOULD | 1.Mohamed Adam |
| PBI#45 | As a tutor, I want to be reminded of my last login date and time, so that I can enhance security and keep track of my account activity. | 1  2  3  4 | 1. Login as tutor and access the dashboard. 2. View the sidebar. 3. Check Last Login If it's not the first login, display the last login time in the sidebar. 4. If it's the first login, display a welcome message instead in the sidebar. | SHOULD | 1.Mohamed Adam |
| PBI#46 | As an admin, I want to access reports that display the most viewed pages, the most active users, and the browsers utilized, so that I can monitor system usage effectively. | 1  2  3  4  5 | 1. Login as admin and access the dashboard. 2. Click “Home” tab 3. Display list of “Most Viewed Pages" in table. 4. Display list of "Most Active Users" in table. 5. Display list of "Browsers Being Used" in table. | COULD | 1.Mohamed Adam |
| PBI#47 | As an admin, I want to see the audit trails of all users so that I can check their activity in the dashboard. | 1,2,3,4,5,6 | 1. Create a table for trail in database.  2. Add an insert query to the trail table after each activity performed by the admin.  3. Add a trail button in the sidepanel.  4. Display list of all users to choose from to see activity  5. Display a list of activity with filter by date feature by using select query for the selected user.  6. Download button will download an excel file of the activities without any filter. | COULD | 1.Kumareswren Ragh |
| PBI#48 | As a tutor, I want to see the audit trails of my students and mine so that I can check mine and their activity in the dashboard. | 1,2,3,4,5,6 | 1. Create a table for trail in database.  2. Add an insert query to the trail table after each activity performed by the tutor.  3. Add a trail button in the sidepanel.  4. Display list of students assigned to the tutor and the tutor's own name to choose to see activity  5. Display a list of activity with filter by date feature by using select query for the selected user.  6. Download button will download an excel file of the activities without any filter. | COULD | 1.Kumareswren Ragh |
| PBI#49 | As a student, I want to see the audit trails of myself and my assigned tutor's so that I can mine and the tutor's activity in the dashboard. | 1,2,3,4,5,6 | 1. Create a table for trail in database.  2. Add an insert query to the trail table after each activity performed by the student.  3. Add a trail button in the sidepanel.  4. Display tutor assigned to the student and the student’s own name to choose to see activity  5. Display a list of activity with filter by date feature by using select query for the selected user.  6. Download button will download an excel file of the activities without any filter. | COULD | 1.Kumareswren Ragh |
| PBI#50 | As a student, I want to be able to view my tutorial answers that have been checked and then commented on by my tutor so that I can learn from their feedback | 1  2  3  4  5 | 1.Create a panel in student’s page titled ‘Answers’.  2.Display all student submissions to tutorials of the currently chosen course.  3.Show tutor remarks, if tutor has added.  4.Show placeholder text if a submission has not been given remarks by tutor.  5.Show that no submissions were found if student has not made a tutorial submission, or if they did before tutor decided to delete the corresponding tutorial question. | MUST | 1.Sri Valsan |