COM741 Web Applications Development

Practical 10

Adding Features Described via User Stories

The process of defining "functional requirements" as user stories and then implementing these requirements, is something you will need to be able to do for your final project dissertation.

1. Ticket Resolution Feature:

As a user (admin/manager role), **I would** like to be able to record Ticket resolution details when closing the ticket, **so that** this information can be used as a resource when resolving other tickets.

Steps to implement feature include:

- Amend the SMS.Data Ticket model to include ResolvedOn (DateTime) and Resolution (string) properties.
- Update the service CloseTicket interface and implementation to accept the additional string resolution parameter and ensure the ticket Resolution and ResolvedOn values are updated.
- Amend CloseTicket tests to prove the operation of the amended ticket service methods
- Amend the Ticket Index.cshtml view to contain a link to each Tickets "Details" action (removing Close form)
- Complete the Ticket Details.cshml view to display the Ticket. Add a button that
 displays the close ticket modal. See example in Student Details view that displays the
 Delete modal. Use a modal id of e.g. "CloseTicketModal"
- Complete the Ticket __CloseModal.cshtml partial (see example in student delete modal). Ensure the you give the modal the same id as configured in the close modal button on the details page e.g. "CloseTicketModal".
- Amend the TicketController Close action to call the service method to close the ticket, passing in the resolution contained in the model. Also use bind to ensure we only bind the required values Id and Resolution.

2. Ticket Search Feature:

As a user (admin/manager role) I can search all, open or closed ticket issues or student names using a search query, so that I can easily find relevant tickets

Steps to implement feature include:

- Complete the outline service method
 public IList<Ticket> SearchTickets(TicketRange range, string query) {...}
 Note use of TicketRange enum found in the SMS.Data.Models namespace
- Verify operation via additional test cases (see outline tests)
- Create a TicketSearchViewModel in SMS.Web.Models namespace to contain properties string Query, TicketRange Range and IList<Ticket> Tickets.
- Create a __Search.cshtml partial form in Ticket views folder to collect search data (Query, Range)
- Complete the outline Search action in the Ticket controller. This should use the
 Query and Range attributes of the viewmodel parameter to call the new SearchTicket
 service method and assign the results to the view model Tickets property, before
 returning the View with the viewmodel as a parameter
- Complete the outline Search.cshtml view by copying the table from the existing Index view and amending as necessary to loop over the tickets contained in the view model.
- 3. Use dependency injection system to
 - add a Scoped instance of IStudentService as StudentServiceDb in Program.cs
 - configure the Student/Ticket and User controllers to use the dependency injection system and verify the application still works