SRS, Design, and Implementation Summary

1. Technologies used and experience with them for each member

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Team member name** | **HTML & CSS** | **Bootstrap** | **JavaScript** | **QuaggaJS** | **React** | **SQL with MySQLWb** | **NodeJS** |
| Edin Žiga | Very Experienced | Very Experienced | Moderately Familiar | No prior experience | No prior experience | No prior experience | Little prior experience |
| Faruk Imamović | Very Experienced | Moderately Familiar | Little prior experience | No prior experience | No prior experience | No prior experience | No prior experience |
| Nedim Kunovac | Very Experienced | Moderately Familiar | Moderately Familiar | No prior experience | No prior experience | Moderately Familiar | Little prior experience |
| Mirza Redžepović | Very Experienced | Very Experienced | Little prior experience | No prior experience | No prior experience | Little prior experience | No prior experience |

*Table 1 Technologies Used*

1. Contribution table for SRS document

|  |  |  |
| --- | --- | --- |
| **Team member name** | **Task Assigned** | **Status of the tasks** |
| Edin Žiga | SRS Document REV1.0 review, lead release plan development, REV2.0 updates and finalization, REV3.0 updates | Completed |
| Faruk Imamović | SRS Document REV1.0 review, lead use case development, REV2.0 general review | Completed |
| Nedim Kunovac | SRS Document REV1.0 task distribution, review and finalization, lead system features development, REV2.0 contribution table review | Completed |
| Mirza Redžepović | SRS Document REV1.0 review, system evaluation development, REV2.0 corrected diagram design | Completed |

*Table 2 SRS Document Contribution*

1. Contribution table for Design document

|  |  |  |
| --- | --- | --- |
| **Team member name** | **Task assigned** | **Status of the tasks** |
| Edin Žiga | Design Document REV1.0 review, introduction and modules, REV2.0 updates and finalization, REV3.0 updates | Completed |
| Faruk Imamović | Design Document REV1.0 task distribution, review and finalization, lead user interface & use case diagram design, REV2.0 general review | Completed |
| Nedim Kunovac | Design Document REV1.0 review, sequence diagram design, REV2.0 general review | Completed |
| Mirza Redžepović | Design Document REV1.0 review, UML class diagram design and Trello integration, REV2.0 corrected diagram design | Completed |

*Table 3 Design Document Contribution*

1. Contribution table for implementation

|  |  |
| --- | --- |
| **Frontend Development** | |
| **Team member name** | **Contribution** |
| Faruk Imamović | * Skeleton for the whole application * QR Code reader development and implementation * Skeleton for all the functionalities related to the QR Code reader (Manual add, finish scanning, return & continue) * GitHub repository moderator |
| Mirza Redžepović | * Login page skeleton * Course list page skeleton * Template for tables used in multiple pages * Trello board moderator |
| **Backend Development** | |
| **Team member name** | **Contribution** |
| Nedim Kunovac | * Skeleton for server * Initial database, connection to the database * Connection between frontend and backend, made sure the data was visible within the application, element formatting * Internal routing within the application |
| Edin Žiga | * Database updates for multiple users and courses * Template functions used for fetching and updating data within the database * Login page logic and routing, template for functionalities that were different for each user |

*Table 4 Implementation Contribution*

1. Github link with updated code:

[FarukIm/SEProject (github.com)](https://github.com/FarukIm/SEProject) <- Hyperlink

<https://github.com/FarukIm/SEProject> <- URL

Disclaimer: It was not possible for each member to upload their files as each file was edited by at least three members. Rather, we did our best to include comments within each file to show which member was responsible for which block of code, but even with that most of the blocks were collaborations between multiple members. It also must be noted that the file structure for the entire project was changed multiple times as to account for different features and improve working efficiency.

1. Changes made to initial plan:
   1. The implementation of all functionalities labeled as “must have” were successful, though it must be noted that UR2.1 was edited as to scan QR Codes (instead of barcodes) as the barcodes available on the back of the IUS Student id cards were simply too small to scan.
2. Trello board link and screenshots:

[Attendance Scanner | Trello](https://trello.com/b/xzbqAssz/attendance-scanner) <- Hyperlink

<https://trello.com/b/xzbqAssz/attendance-scanner> <- URL

Graphical user interface, application

Description automatically generated

Figure 1 Trello Board