Amber Kimberling

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Master’s Project: Progress Report

**Virtual Classroom Dashboard**

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| **Week11: 03/07/2021 – 03/13/2021 🡪 Design & Code and Test** |
| * Design   + ER Diagram      * + Schema Diagram      * + User Flow Diagram Started – Not Complete      * Code and Test   + (Issue #1) Database – In progress     - this issue will be constant, changes may be needed during the development process   + (Issue #7) Basic Layout – Complete     - Index –“Home page”, Login, Registration, Manual, and Contact     - No backend functionality applied in this issue   + (Issue #8) Security Preparation – In progress     - Downloading proper nuget packages and waiting on security flow diagram(ex:IdentityServer) |

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| **Week10: 03/07/2021 – 03/13/2021 🡪 Design & Code and Test** |
| * Design   + Wireframes - Complete        * + Sample Layout Implementation of Wireframes      * + Style Guide for web app * Code and Test   + (Issue #1) Database – In progress   + (Issue #7) Basic Layout – In progress   + (Issue #8) Security Preparation – In progress |

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| **Week 9: 02/28/2021 – 03/06/2021 🡪 Design & Code and Test** |
| * Design   + Sitemap      * + Wireframes(not finished)      * Code and Test   + (Issue #1) Develop DB on Microsoft SQL Server(Created but no tuples yet)   + (Issue #2) Create project on visual Studios (Set up all the basics)   + (Issue #3) Add project to GitHub for version control and creating multiple branches related to issues.   + (Issue #4) Add project to Azure. |

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| **Week 8: 02/21/2021 - 02/27/2021 🡪 Research & Requirements** |
| * Research   + ASP.NET MVC: Building for Productivity and Maintainability continuation * Requirements   + Database Requirements     - General Requirements   + Feature Requirements Schedule * List of features and tasks created into GitHub. This will become issues. * **\*\*\*NEW PHASES BEGINS NEXT WEEK – design & code, test phases \*\*\*** |

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| **Week 7: 02/14/2021 - 02/20/2021 🡪 Research & Requirements** |
| * Research   + ASP.NET MVC: Building for Productivity and Maintainability continuation     - Framework, design, improvements, and business logic     - Simplifying views   + Functional requirements * Requirements   + Database Requirements     - ER Diagram     - Relationships     - Functional Requirements (Not finished)   + Interface Requirements |

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| **Week 6: 02/07/2021 - 02/13/2021 🡪 Research & Requirements** |
| * Research   + ASP.NET MVC 5: Authentication and Authorization Continuation     - Authorization     - Security   + Data Requirements   + ASP.NET MVC: Building for Productivity and Maintainability     - <https://www.linkedin.com/learning/asp-dot-net-mvc-building-for-productivity-and-maintainability/improve-the-design-of-your-asp-dot-net-mvc-applications?u=52983649>     - Framework, design, improvements, and business logic * Requirements   + Software Requirements Specification Project requirements     - Intro(purpose, intended audience, project scope)     - Overall description(Product perspective, Operating environment, Data Features)     - External Interface Requirements   + Database Requirements – Entities   + Interface Requirements |

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| **Week 5: 01/31/2021 - 02/06/2021 🡪 Research & Requirements** |
| * Research   + ASP.NET Web Forms Essential Training Continuation     - ASP.NET web form pages     - Debugging and instrumenting     - Creating reusable code     - Working with data   + ASP.NET MVC 5: Authentication and Authorization     - <https://www.linkedin.com/learning/asp-dot-net-mvc-5-identity-authentication-and-authorization/improve-user-experience-with-third-party-authentication?u=52983649>     - Identity Management     - Authentication * Requirements   + Software Requirements Specification Project requirements     - Intro(purpose, intended audience, project scope)     - Overall description(Product perspective, Operating environment)     - External Interface Requirements     - More to come...   + Database Requirements |

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| **Week 4: 01/24/2021 - 01/30/2021 🡪 Research & Requirements** |
| * Research   + Building Web APIs with ASP.NET Web API 2.2 continuation   + ASP.NET Web Forms Essential Training     - <https://www.linkedin.com/learning/asp-dot-net-web-forms-essential-training/getting-started-with-asp-dot-net-web-forms?u=52983649> * Requirements   + Looking into ways of creating a feature development chart   + Software Requirements Specification Project requirements     - Intro(purpose, intended audience, project scope)     - Overall description(Operating environment)     - More to come… |

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| **Week 3: 01/17/2021 – 01/23/2021 🡪 Research & Requirements** |
| * Research   + ASP.NET Security     - Continuation with the LinkedIn learning asp.net security videos   + Hashing     - Cormen, Thomas, et al. Introduction to Algorithms, 3rd Edition (The MIT Press). 3rd ed., The MIT Press, 2009.   + Building Web APIs with ASP.NET Web API 2.2     - <https://www.linkedin.com/learning/building-web-apis-with-asp-dot-net-web-api-2-2-2/the-power-of-web-apis?u=52983649> * Requirements   + User Needs Chart(Helps with creating the product backlog)   + Product Backlog – (Story ID, User Story, Importance, Estimate, Acceptance, user type, and epic)     - Student     - Educator     - Admin |

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| **Week 2: 01/10/2021 - 01/16/2021 🡪 Research** |
| * Research   + Database     - Self-adjusting multi-granularity locking protocol for object-oriented databases (University of Windsor Thesis Paper: Deepa Saha)   + Threading     - Advanced Threading in C#: <https://www.linkedin.com/learning/advanced-threading-in-c-sharp/two-way-signaling?u=52983649>     - <https://www.tutorialspoint.com/csharp/csharp_multithreading.htm>   + ASP.NET Security     - <https://www.linkedin.com/learning/asp-dot-net-security-2/unhackable-asp-dot-net-applications?u=52983649> |

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| **Week 1: 01/03/2021 - 01/09/2021 🡪 Research** |
| * Developed a Github Repository where all documentation will be maintained and a project page. * Research:   + Zoom Client SDK’s for web application integration.     - <https://marketplace.zoom.us/docs/sdk/custom/introduction>     - To implement Zoom API will need the API key and secret along with direct user login.     - Access credentials and user tokens are also important.   + AWS vs AZURE hosting with ASP.NET Apps     - <https://stackify.com/azure-vs-aws-comparison/>     - <https://insanelab.com/blog/web-development/microsoft-azure-vs-amazon-web-services/>     - Azure was best for hosting ASP.NET applications due to the easy integration.   + Implementing Large Scale DB’s     - LinkedIn Learning video 🡪 Database Foundations Core Concepts     - Elmasri, Ramez, and Shamkant Navathe. *Fundamentals of Database Systems*. 7th ed., Pearson, 2015     - <https://www.freecodecamp.org/news/database-indexing-at-a-glance-bb50809d48bd/>     - Self-adjusting multi-granularity locking protocol for object-oriented databases (University of Windsor Thesis Paper: Deepa Saha)     - Inner workings a different type of databases. I will be using a relational MySQL database.     - Understanding different concepts of database memory management and file indexing.     - Multiple Granularity Locking and Protocols.     - Types of indexing |