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**WCTC Student Travel App Proposal**

Overview

WCTC would like to build a web application for creating and managing student field trips. When an instructor coordinates a field trip, WCTC requires students and teachers to complete many documents and liability forms, most of which are updated yearly and tailored to each field trip. The application’s purpose is to facilitate the coordination of a field trip for both coordinators and students. Coordinators will use the application to organize the required forms requested by WCTC and deliver documents to students. The application needs to be useable and appealing for students to easily and securely sign up for field trips the coordinator has created. Coordinators and students alike should be able to track their progress to quickly determine which requirements still need to be completed.

There will be three types of customers involved:

1. Administrator/Dean
   1. Can add/remove coordinators
   2. Likely monitor overall status of field trip documentation
2. Coordinator
   1. Create field trips
   2. Approve/deny student applications
   3. Follow-up with missing documents
   4. Correspond with students
3. Student
   1. Apply for field trips
   2. Submit documentation

Customer Communication

We will be communicating with the customer and product owner via face-to-face communication and e-mail.

Project Scope

This will be an application to assist in the creation and management of travel-related documents as it relates to what the school requires on both the instructor/coordinator side and student side. This includes helping the instructor auto-fill documents with given trip information and helping both sides keep track of documents that have been submitted or are still pending completion.

This will involve a database and a web portal with separate user roles between Administrator, Coordinator and Student. It will also include a client-side application to display information from the database and allow for changes/new submissions based on the user's role.

Technology Stack

The application will be built on .NET Core Framework, with the database created with Microsoft SQL Server.

Current Infrastructure

There is no current infrastructure besides the available database server to build the project database on.

Sprint Goals and Deliverables

Sprint 1: Basic web design and ability to input student form data and submit to database

Sprint 2: Basic trip creation on the Coordinator side with trip selection and autofill of data for students

Sprint 3: Creation of roles, authentication and full CRUD capability for proper roles

Risks/Challenges

One risk that has already been discussed is the issue of compliance with WCTC’s risk mitigation consultant as it pertains to digital documents in general and our initial idea of virtual signatures. We should get more concrete answers from WCTC before spending effort on virtual signatures but can certainly offer it as a bonus if we can prove it can be done securely and in compliance with conventional practices.

Additionally, the application itself needs to be something that students are willing to use, including being fully functional and easy to use. We should acquire student buy-in to make it easier to pitch the project and to secure its usage by students in the future.