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| **Project Title:** Commerce Bank Web App |

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| **Start Date:** 02/14/2021 | **End Date:** 05/07/2021 |

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| **Project Manager:** Will Keke |

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| **Project Sponsor:** Commerce Bank |

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| **Customer:** Commerce Bank |

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| **Users:** Commerce Bank Customers |

**Stakeholders and Expectations:**

Team: Have ready access to individuals with the authority to make decisions regarding software requirements. Be given specific and detailed feedback on product increments by Commerce Bank representatives.

Commerce Bank: Gain web presence with a web app customers can use to enhance their banking experience.

Users: Enrich Commerce Bank customers with the ability to continue their banking activities in an electronic environment.

**Purpose (Problem or opportunity addressed by the project)**:

In today's health climate, the use of contactless services are even more of a necessity. Lines are even longer, and the thought of in-person communication for some customers is too much of a risk. Commerce Bank takes pride in providing solutions to these financial challenges so that customers can focus on the things that matter the most.

The purpose of this project is to provide an online alternative to in-person interactions. We envision providing customers a web application that allows them to view their banking transactions. In addition, customers will be able to set triggers for these transactions and receive notifications at their leisure.

Giving control to the customer while simultaneously assisting them through viewing/notifications of their transactions will generate an opportunity for even better rapport between Commerce and its customers. This personalized solution will help customers navigate their financial situations freely for today and the future.

**Goals and Objectives**: The overall goal is to give customers an online alternative to in-person interactions. The app is expected to:

- Be designed so that anyone, regardless of technical level should be able to use and understand.
- Have a simple login with username and password fields
- Provide users with the ability to Add/Edit/Delete notification rules with minimum technical assistance.
- Have a detailed dashboard with a summary of triggered notification rules that is easy to read and use.
- Display a notification when the user logs in.
- Display a Transaction list (sorted by date) that can be modified to add additional transactions.
- Have functionality to export a spreadsheet.

**Schedule Information (Major milestones and deliverables)**:

02/15/2021 - Gather requirements
02/26/2021 - Project Charter Complete
02/28/2021 - Requirements Complete
03/01/2021 - Iteration #1 Complete
03/07/2021 - Project Plan Complete
03/14/2021 - Risk Management Report
03/15/2021 - Iteration #2 Complete
03/15/2021 - First Presentation
04/04/2021 - Architecture Document Complete
04/05/2021 - Iteration #3 Complete
04/19/2021 - Iteration #4 Complete
04/30/2021 - Test Plan Complete
05/03/2021 - Iteration #5 Complete
05/07/2021 - Project Results & Product Release

**Financial Information (Cost estimate and budget information)**:

1 project manager at 4 hours per week for 14 weeks
    56 hours * $50/hr = $2800
1 requirements/operations engineer at 4 hours per week for 14 weeks
    56 hours * $40/hr = $2240
2 software engineers at 4 hours per week each for 14 weeks
    112 hours * $40/hr = $4480
1 database administrator at 4 hours per week for 14 weeks
    56 hours * $40/hr = $2240

280 hours total, $11760 total, avg, $42.00 per hour

**Project Priorities and degrees of freedom:** Dates are established without prior authorization from the sponsor. Budget is extendable in terms of hours put in by each team member. This is at the discretion of the team based on approaching deadlines. Roles are changeable based on workloads of individual team members.

**Approach:** An iterative and incremental approach is planned. The team will receive feedback after each iteration that will be used going into the next iteration. The first iteration will mostly be requirements, planning, and making a runnable (non-functional) app. The second iteration will focus on the basic functionality of the app. Subsequent iterations (3-5) will build upon the app and allow more functionality and features as time allows.

**Constraints**: Must be a web application built in a newer web development framework. Support from Commerce Bank representatives is limited to .NET framework. Integration of a persistent database is required - Commerce Bank representatives support SQL Server. At least 10% of the app's code must have unit test coverage. Explicit standards for the user experience and front-end development must be followed.

**Assumptions**: Team members will be able to work individually on their own machines. The database will be distributed in a way such that everyone has their own database to test on without any software issues. Team members all have access to the github repository.

**Success Criteria**: The project will be considered a success if (1) the team delivers an operational prototype at the end of the semester with the features mentioned in the goal section above, (2) at least two stretch goals are delivered.

**Scope**: The web application will keep the integrity and security of the user's data, allow users to check their account balances, see their transaction history, and set and receive notifications about their accounts. As time allows, additional stretch goals will add more functionality to the application. The project scope does not include creating new customer or member accounts or detailing information about Commerce Bank products.

**Risks and obstacles to success**: The team has the risk caused by the lack of experience working on a web application through the .NET framework. There are many unknowns (i.e.: how to integrate a database into the application) that must be resolved which results in a variable amount of development time. While the implementation of code can be clear, it's hard to estimate the resources and time needed.

**Signatures**

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**Project Manager**

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**Project Sponsor**

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**Customer**

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**Technical Lead**