Split the Bill



Mel Nichols, Wolf Raynsford, Alex King, Jared Bumgardner

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Dr. Bernd Owsnicki Klewe

# Table of Contents

Table of Contents

[**Table of Contents**](#_heading=h.g2m7b41gqqvm) **2**

[**1 Executive Summary**](#_heading=h.ywrq228zr0eg) **4**

[**2 Final Requirements and Comparison with Initial Requirements**](#_heading=h.h8q1kinetdxo) **4**

[**3 Final TimeLine and Comparison with Initial Requirements**](#_heading=h.aoz2vg5ggn65) **4**

[**4 Project Results Compared with Expectations**](#_heading=h.xljqy7g8s53t) **5**

[**5 Project Process Review**](#_heading=h.up3ay1w3lvez) **5**

[**6 Work to be Done**](#_heading=h.ihm3uo10fzpb) **6**

**7 Project Github 7**

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# 1 Executive Summary

The goal of this project was to create a website where individuals can plan and manage travel expenses. The system provides methodology for planning trips, managing expenses, and scheduling vacations. Trip costs can be organized by category and are displayed in a pie chart. The visual representation of the budgets helps users to easily identify how much funds should be spent for each aspect of the trip.

# 2 Final Requirements and Comparison with Initial Requirements

The final components of the system consist of a website and a database backend. The database is used to store budget amounts and user credentials. The final requirements of the project capture most of the initial requirements, however some features were left out.

Main features such as creating an account, logging in, and creating budgets were developed. These features were crucial in the development of the system, as they are the core functions. Some of the features that were not completed by the second sprint are the chat feature, the search feature, and the voting feature.

# 3 Final TimeLine and Comparison with Initial Requirements

The final timeline was very consistent with the initial timeline. At the beginning of the project, the team laid out a timeline that consisted of two sprints. The first sprint was initially planned to be completed on 11/04/2019. The team ended up completing the first sprint on 10/15/2019, so not as much time was needed as expected. The second sprint was initially planned to be completed on 11/25. The actual completion of the second sprint was 12/1, so the team fell behind about a week compared to the initial planned completion.

# 4 Project Results Compared with Expectations

When looking at our initial expectations it became clear that our inexperience with some of the platforms we were working with hindered our progress. The longest tribulation we suffered came from our attempt to create a database that could be connected to by any of the group members. We changed platforms several times over the course of the semester, eventually deciding to host it locally for ease of testing and development. As for the features on the front end of the website we almost completed all aspects of user management as well as creation of budgets and adding items to the budgets. One of the largest tribulations came from our lack of experience with PHP. Overall the number of features we wanted to have working at the end was less than we initially wanted.

# 5 Project Process Review

Our group met every Sunday to discuss what needed to be completed and to discuss what had been completed the prior week. If someone was stuck on something typically we would have a group discussion on what to do about it. The most difficult for our group to overcome was the scheduling problems. Our group never had a day where we were all on campus and available to make an in person meeting so the group opted for voice chat on discord with a chat as well as a Trello for meeting notes and goal tracking. When looking at the amount of learning that we had to do both in PHP and network management I would say we learned quite a bit given our timetable. Many things we initially assumed would be simple turned out to be the hardest parts of our development, though overall our communication was what allowed for us to accomplish the amount of tasks we did.

# 6 Work to be Done

In the future we would want to add the remaining features originally discussed. The ability to add users to a budget, representation of the information in the DB on the platform, and a chatbox.Email verification to users during account creation, alerts when changes are made to a budget and suggestion for the type of field created based on popular google searches. All of the features beyond that scope were not elaborated upon fully as so much time was spent getting the primary features for the website in place.

# 7 Project Github

1. <https://github.com/ARK22/SplitTheBill>