**Cost-Divider**

**Test Plan**

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**Cost-Divider**

**Test Plan**

# MSD I: WKS 8-10 TEST plan

## Introduction; Overview; Summary; Purpose

We are a team of four individuals who set out to make an application that every day human beings could come across and use in their day to day lives. We built a web application that allows for users to come to our site and add a specified dollar amount to then divide the cost among all the individuals involved in the transaction. We kept the people in our mind the entire time while developing this application; it’s all about making life easier.

## Project Description; Sub-Systems/Critical Components

There’s many people out there who struggle splitting up a bill or figuring out a way to pay a friend for an expense, we cut out the hard work, and offer everyone an easy and effective way to stay on top of daily/monthly expenditures. The project is set around several obstacles we set out to conquer and have achieved a great deal in the process

### When a user comes to use our web application they choose an option to either divide the cost “evenly” or “customly,” where a form will then be generated accordingly.

### If the user clicks “Evenly” the user enters the number of people to be divided among and a total amount of money they want to split. They then enter their personal Venmo username which will be used to conduct the transfer of funds. All users have the option to upload an image of a receipt if they choose to and add a note for what they payment is for.

### If the user clicks “Custom”, the form will add a field to split the bill with a different percentage than it would if the amount was split evenly.

### Once the user clicks the submit button a new form is generated where the user will enter the Venmo usernames of the people they wish to charge.

### After everything has been input on our application they are transferred to Venmo. From there they will finish the process payment and notifications will be sent out the recipients that were included in the final step on our application. Venmo is the third-party application we integrated for the peace of mind of users coming to our site. It’s reputation helps us gain the trust of the users trafficking to our site, so that we may improve more on our application and in the future apply a payment option directly hosted on our site from us.

## Approval; Sponsor

Approved by:

Team Members – Muzammel Choudhery,

Christian Lewcyzk,

Alex Sadeghi, and

Delan Diaz

Sponsor(s) – None.

## Test Strategy

1. *What we’ll test (and what we won’t test)*

* We will test how quick the response of the web application is when processing requests.
* How many requests it can handle; System crashes.
* Will all users entered to be charged, be charged.
* Usability.
* Notifications being received to users.
* We will not test the upload button.

1. *How we’ll test: equipment and materials needed, test configurations and procedures, pass/fail criteria*

* We will go through each part of the web applications processing requests to see what is being generated.

1. *Responsibilities and the approval process*

* All team members approve the web application is a functional prototype. Went through functionality of application and are satisfied of outcome.
* Muzammel Choudhery was the Product Owner.
* Delan Diaz was the Scrum Master for Sprint 1.
* Alex Sadeghi was the Scrum Master for Sprint 2.
* Christian Lewcyzk was the Scrum Master for Sprint 3.

### Product Specifications, Block Diagram, and Pass/ Fail Criteria

**!!!!!!! ADD USER STORIES HERE !!!!!!**

### Functions (hardware) and Features (software, customer needs)

*Note to Teams: A more detailed content which can be organized including some or all of the following. This portion of the test plan will grow and change as your design grows and changes so revisit periodically. More detail may occur with the* ***Final Test Plan*** *section.*

1. *Tests (list or table): test # and name; test description.*
2. *Traceability or verification matrix (table): specification # and brief description; system component embodying the spec (optional).*

### Test Equipment available

### Test Equipment needed but not available

### Phases of Testing

*Note to Teams: Your testing needs may be a sequential. As an example, early testing in Senior Design I may be very informal for the purpose of evaluating the concept feasibility for the chosen technology. That is, component and/ or subsystem testing aids in gaining confidence in the chosen technology prior to full commitment. More advanced testing becomes more formal requiring good documentation. Discuss this plan within the team and then with your Guide. (Refer to System Life Cycle Lecture on EDGE Resources for further details.)*

#### Component

### Add here or remove as applicable.

#### Subsystem

### Add here or remove as applicable.

#### Integration

### Add here or remove as applicable.

#### Reliability

#### *Note: If there is a specification, such as a drop test, out of range voltage or some other form of potentially destructive testing, discuss this with your Guide and Sponsor. As an example, this specification maybe waived depending upon the specific customer needs.*

### Add here or remove as applicable.

#### Customer Acceptance

### Add here or remove as applicable.

## Definitions; Important Terminology; Key Words

### Add here or remove as applicable.

## References

### Add here or remove as applicable.

# msd ii WKS 2-4: - final test plan

Introduction: A brief description that states the purpose of the team’s testing needs.

*Note to Teams: The* ***Final Test Plan*** *is due in Week 5 of Senior Design 2 and details the specific methodologies to support both the overall systems specifications and detailed sub-system specifications. This portion of the test plan need to be revisited periodically to ensure your test strategy is in agreement with the team members and project mission.*

## Data Collection Plan; Sampling Plan

### Test Templates/ Tables/ File Locations

### *Tests (list or table): test # and name; test description*

*Traceability or verification matrix (table): specification # and brief description; system component embodying the spec (optional); test # (name optional if contained elsewhere); test date field (start/stop dates may be needed), pass/fail or test result field (verification); remarks or actions needed if test failed; signoff. Several specifications may utilize the same test routine, so duplicate entries should point to one entry which contains more detailed information.*

### EDGE team website structure (i.e. document names, file types, and header location).

### Phases of Testing

#### Component

### Add here or remove as applicable.

#### Subsystem

### Add here or remove as applicable.

#### Integration

### Add here or remove as applicable.

#### Reliability

### Add here or remove as applicable.

#### Customer Acceptance

### Add here or remove as applicable.

### Sampling Techniques

### Sample Size

### Reporting Problems; Corrective Action

### Add here or remove any other critical needs, as applicable.

## Measurement Capability, Equipment

*If there are measurement issues or techniques over and beyond RITs equipment, then either a, specific test devices test stands need to be designed for the purpose of testing or test waiver.*

### Add here.

## Test Conditions, Setup Instructions

### Add here or remove as applicable.

## Sponsor/Customer, Site Related, Requests / Considerations

### Add here or remove as applicable.

## Test Procedure, Work Breakdown Structure, Schedule

*Note to Team: Who is testing what? Why are you testing what you are testing? Are there interdependencies between subsystems (Block Diagram)? Can test equipment enable preliminary simulation of needed signals prior to integrating into the next level of completion?*

### Add here or remove as applicable.

## Assumptions

List here including reasons why or remove as applicable.

### Add here or remove as applicable.

# MSD II – WKS 3-10 design test VERIFICATION

*Note to Teams: Populate the templates and test processes established in* ***Final Test Plan****.*

*These elements can be integrated or rearranged to match project characteristics or personal/team preferences.*

## Test Results

### Component

### Add here or remove as applicable.

### Subsystem

### Add here or remove as applicable.

### Integration

### Add here or remove as applicable.

### Reliability

### Add here or remove as applicable.

### Customer Acceptance

### Add here or remove as applicable.

## Logistics and Documentation

### Where are the test results being performed, logged (i.e. project notebook) and documented (i.e. excel spreadsheet)? EDGE team website structure (i.e. document names, file types, and header location).

## Definition of a Successful Test, Pass / Fail Criteria

## Contingencies/ Mitigation for Preliminary or Insufficient Results

## Analysis of Data – Design Summary

## Conclusion or Design Summary

Can you explain why a particular function doesn’t work? Add here or remove how the conclusions are to be reported or summarized (i.e. significance with confidence, pass/fail, etc.) as applicable.

## Function/ Performance Reviews

*Note: Some teams organize reviews on a weekly bases starting in week 4 or 5 and other may wish to wait until week 10 or 11. Discuss with your Guide.*

### **Debriefing your Guide and Faculty Consultants**

### Share test results, conclusions, any follow-on recommendations, design summary.

### **Lab Demo with your Guide and Faculty Consultants**

### Perform each of the specifications and features.

### **Meeting with Sponsor**

### See Customer Acceptance above. Field Demonstration. Deliver the project. Demonstrate to the Sponsor. Customer needs met / not met.

## References

Add here or remove as applicable.

### Add here or remove as applicable.

## Appendices

Add or remove as applicable.

### Add here or remove as applicable.