
Cheque Writing Web service

Functional Specification

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- C O N F I D E N T I A L -

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Overview

Cheque Writing Web service.com is a web service that returns the name of the person and the cheque amount that they have input in “words”.

This spec is not, by any stretch of the imagination, complete. All of the wording will need to be revised several times before it is finalized. The graphics and layout of the screens are shown here merely to illustrate the underlying functionality. The actual look and feel will be developed over time with the input of graphic designers and iterative user feedback.

This spec does not discuss the algorithms used by the “cheque amount conversion from numbers to words” engine, which will be discussed elsewhere. It simply discusses what the user sees when they interact with **Cheque Writing Web service.com**.

Scenarios

In designing products, it helps to imagine a few real life stories of how actual (stereotypical) people would use them.

Scenario 1: Mike.

Mike is a busy executive. He is the president of a large, important company that makes dynamite-based products for children which are sold through national chains such as Toys ‘R’ Us. During the course of a typical day, he meets several important people. Sometimes a man comes over from the bank to harass him for not paying the interest that was due three months ago on his line of credit. They always tell him to write a cheque with his name on it and the amount in both numbers and amounts. As Mike didn’t study well, he always struggle to convert cheque amount into numbers. In order to not embarrass himself, he found a web service to return the cheque amount in words. He types <http://localhost:8080/> and gets a web page to enter his name and the amount to be converted from number into words. Sometimes he visits the site after work hours just for fun.

Non Goals

This version will *not* support the following features:

- Validation of user input and amount. First version expects that a valid user name and amount has been entered by the user. Otherwise an error webpage will be displayed.

Screen by Screen Specification

All screens are created in HTML.

Home Page

The Home Page serves only 2 purpose:

1. Allow people to enter the name and the amount
2. Submit.

The Home Page looks like this:

Cheque Writing Helper

Name (e.g. John Smith):

Amount (e.g. 123.45):

Result Page

The Result Page looks like this for user input below:

```
<Input>
Name: abhi
Amount: 123.45
<Input>
```

Cheque Writing Helper Succeeded!

Name	Amount
abhi	ONE HUNDRED TWENTY THREE DOLLARS AND FORTY FIVE CENTS

[Home](#)

Error Page

Something went wrong!

Our Engineers are on it

[Go Home](#)

Technical Note

Software used to build this application:

1. Springboot 2.5.5
2. Thymeleaf 3.0.12
3. JUnit Jupiter 5.7.2
4. Java 11

GitHub: [akqa_deliverables](#)

Executable jar (Java 11 runtime): [Software Jar](#)

Demo (How to run the software?): [Software Demo](#)

MVC Design

View:

index.html
result_success.html
error.html

Controller:

ChequeWriterController.java

Model (Amount to Words Conversion Code):

ChequeWriterService.java

POJO:

Cheque.java

Open Issue

Need to decide about JavaScript for name and amount entered validation error message verbiage.
