**System Documentation**

**Deft Developers Team 1**

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# Introduction

The ACH Case Tracking Phase will allow automation of some file processing, add automatic auditing and make cases visible. This product will make the case management process more effective and result in saved costs for Commerce Bank. This document will provide instructions for accessing the application installing it.

# Required Installation

These are the required software to access our web application. First is installing jhipster, which require Java 8 at <http://www.oracle.com/technetwork/java/javase/downloads/index.html> .

1. Install nodejs at <https://nodejs.org/en/> (This will also install npm)
   1. Do command: npm install –g bower (to install bower)
      1. Npm install –g gulp
      2. Npm install –g jhipster
2. Installing Mongodb at <https://www.mongodb.org/>
   1. First we have to install python as it’s a requirement for mongo, downloadable at <https://www.python.org/downloads/release/python-2711/>
      1. Configure mongodb
         1. Commands to start application: npm install, bower install, gradlew, gulp, mongod

# Install on Device

## Required Components

Before you can build this project, you must install and configure the following dependencies on your machine:

1. [Node.js](https://nodejs.org/): We use Node to run a development web server and build the project. Depending on your system, you can install Node either from source or as a pre-packaged bundle.
2. After installing Node, you should be able to run the following command to install development tools (like [Bower](http://bower.io/) and[BrowserSync](http://www.browsersync.io/)). You will only need to run this command when dependencies change in package.json.

npm install

1. We use [Gulp](http://gulpjs.com/) as our build system. Install the Gulp command-line tool globally with:

npm install -g gulp

1. Run the following commands in two separate terminals to create a blissful development experience where your browser auto-refreshes when files change on your hard drive.

./gradlew

gulp

Bower is used to manage CSS and JavaScript dependencies used in this application. You can upgrade dependencies by specifying a newer version in bower.json. You can also run bower update and bower install to manage dependencies. Add the -h flag on any command to see how you can use it. For example, bower update -h.

## Building for production

1. To optimize the ACHCaseTracking client for production, run:
2. ./gradlew -Pprod clean bootRepackage
3. This will concatenate and minify CSS and JavaScript files. It will also modify index.html so it references these new files.
4. To ensure everything worked, run:
5. java -jar build/libs/\*.war --spring.profiles.active=prod
6. Then navigate to [http://localhost:8080](http://localhost:8080/) in your browser.

# System Maintenance

## Java/Javascript Code

The user interface consists of seven tabs for viewing information, plus the login screen. Each of these is implemented in the Java file and controller classes located in the main src folder. There are additional files from using angular UI, with angular UI we can navigate through the tabs and search for anything easily.

On the first run, the application displays the login screen and prompt to sign in. Once the user has logged in, the menu is displayed at the top of the screen. The tab bar view enables the user to navigate between the tab, and hosts the seven subviews for each type of information.

The logic in each view controller class mainly performs the task of pulling the appropriate data from ApplicationWebXML, formatting it, and displaying it in the correct fields. The login controller class also contains logic to store the user's credentials in the system. Each different types of users will have different view of the menu and options.