

# CS Capstone Design

## Technical Demo Grading Sheet (100 pts)

### **TEAM: Truthseeker**

**Overview:** The main purpose of the “Technical Demos” is to very clearly communicate the extent to which the team has identified key challenges in the project and has proven solutions to those challenges. Grading is based on how complete/accurate the list of challenges is, , and how convincingly and completely the given demos cover the given challenges.

This template is fleshed out by the team, approved by CS mentor, and brought to demo as a grading sheet.

### **Risky technical challenges**

Based on our requirements acquisition work and current understanding of the problem and envisioned solution, the following are the key technical challenges that we will need to overcome in implementing our solution:

#### **C1: Authentication System.**

The authentication system must show up before the user can access everything else in the web application. Furthermore, the authentication system needs to make sure that users cannot register freely and must have an administrator create an account for the user. To prove a good solution, the demo must show a login page, the creation of a user’s account, and successfully logging in and the user being redirected to the dashboard.

#### **C2: API Connection.**

This is a challenge since without the API being connected to the NOBL Database, the web application would not be able to show users campaign data. Additionally, the API connection allows the API itself to calculate and retrieve data pertaining to a user. To prove a good solution, the demo must show the API connected to the NOBL Database, retrieve data from the NOBL database as proof, and calculate a metric needed for the web application using data from the NOBL database.

#### **C3: Data Visualization**

This is a challenge because it is one of the main purposes of the web application. Graphs and charts show the users a summarized view of certain statistics about their ad campaign. The web application must properly retrieve the data using the API and render this data into a graph/chart. To prove a good solution, the demo must show the data in JSON format and then a graph/chart using this JSON data to visualize the data.

#### **C4: Data Exporting**

This is a challenge because it is one of the main purposes of the web application. To export the data, it can be in a document as a PDF. Additionally, the graphs and charts can also be exported as an image. To prove a good solution, the demo must show the data being exported as a PDF and organized in a proper format and the graphs and charts can also be individually downloaded as an image.

## Challenges covered by demos:

In this section, we outline the demonstrations we have prepared, and exactly which of the challenge(s) each one of them proves a solution to.

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### Demonstration 1: Login Page

Challenges addressed: Authentication System

Flight Plan: Step by step overview of demo

1. Show Login Page
2. Show User Logging In
3. Show User failing to log in
4. Logging in Successfully will Redirect immediately to Dashboard

Evaluation:

- ✓ Convincingly demo'd each of listed challenges?
  - ✓ Other evaluative comments:
- 

### Demonstration 2: Dashboard Overview

Challenges addressed: Data Visualization, Data Exporting

Flight Plan: Step by step overview of demo

1. Show overall dashboard
2. Show data in its JSON format
3. Show graphs & charts using data retrieved from NOBL Database
4. Show simple export of sample data, downloaded as a PDF
5. Show exporting graph/chart as PNG

Evaluation:

- ✓ Convincingly demo'd each of listed challenges?
  - ✓ Other evaluative comments:
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### Demonstration 3: API

Challenges addressed: API connection

Flight Plan: Step by step overview of demo

1. Show a successful connection between API to NOBL Database
2. Show sample data retrieved from NOBL Database
3. Show calculation of a metric using data from NOBL Database

Evaluation:

- ✓ Convincingly demo'd each of listed challenges?

✓ Other evaluative comments:

**Other challenges recognized by not addressed by demo:**

If there were challenges you listed earlier that were *not* covered by a demo, list here. This will hopefully be a short list...but better to be clear about where you are. If you have items here, you could list (if applicable) any pending plans to reduce these risks.