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The requirements is all about the “What”… The document should introduce your project. It should give an overall description of the project, scope of the work, and list a few requirements, project outcomes etc. that are expected to be met in the course of the project. There may also be a management overview and indicative timeline for the project.

**1. PROJECT DESCRIPTION**

A Node & Angular full stack training app

I will take screen shots, write comments and create tutorials/instructions how to set up a single page web app with Node, Angular and have a database attached.

I will go through the steps of creating the app, bringing the app to production, using Continuous Integration, Source Control, Testing and Metrics, good and bad practices etc.

Once this is complete to a certain degree, I will look into implementing some sort of machine learning algorithm or information retrieval, to add a Computer Science element to it, maybe some sort of recommender system for the single page app.

**2. PURPOSE**

IBM “An in house training end to end app for new teams, new employee’s or people who are new to Angular & Node”

College “Training material to go help students along with a whole end to end software engineering project. To help students understand and learn, as the semester is very short and hard to fit so much in.

**3. PROBLEM/OPPORTUNITY**

What type of web app am I creating? Theme? (although this is not really relevant for what I’m doing, in the end it would be nice to have something to show) (maybe just showing 3 tabs on the page like beginner, intermediate and advanced things?

**4. PROJECT GOAL**

To Have a complete end to end tutorial/instructions of a single page Node & Angular web app, with explinations of how to create it, set up continuous integration and automated testing.

**5. PROJECT OBJECTIVES**

Create a Node Server

Create a single page angular app

Connect to a database

Set up test automation unit and end to end

Set up Task runners for building, publishing app, running tests

Host app somewhere (college?)

Use Continuous integration (Jenkins to preform builds)

**6. TECHNOLOGIES**

Node

Angular

SQL

Html

Css

NPM

Bower

Git

Grunt/Gulp

Karma

Protractor

Jenkins

**7. PROJECT TIMELINE**

End of semester 1

- Node & angular set up

- database connected

- automated testing

- continuous integration

- small proportion of instructions done

Semester 2

Week 1-3

-look into spark, IR, recommender system

-finish turotials

Week 4-6

-

Week 7-9

Week 10-12

-finish up & polish

**8. PROJECT SCOPE**

Quite large, since it will be encompassing all software related issues and terms creating a new project from scratch, database client side, server side, hosting, testing automation tutorials etc

Creating a single page app with instructions & guidelines and varying difficult of content

**9. ASSUMPTIONS AND CONSTRAINTS**

I will have a full set of tutorials set out for creating a single page web app

Also for automation and testing and continuous integration, full end to end of creating an app and deploying it.

Constraint is time, I do have a fair bit of knowledge in this, but as it will get time to get all the components connected. Also the biggest part of time will be taken up researching before implemation and writing the tutorial/instructions.

**10. REFERENCES**

IBM

lecturer