## HW4-Angular, RESTful Web Services, and JPA

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## Introduction

* In this project, I used angular and typescript to build the front-end webpages, and used Restful Web Services with JPA on Eclipse EE.
* Folder swe642-Survey is the angular project, there are 4 main components: cs-survey-page component, single-acknowledgement component, winner-acknowledgement component and student component
* Survey data were store in GMU Oracle Database.

## Set up the Project

* Connect to the GMU VPN to Access the GMU Database
* Back-end
  + Open Eclipse EE IDE, open project from folder RestfulWS
  + Make sure install and run the program on Tomcat 9.0 server
  + The server is located at <http://localhost:8080/RestfulWS>
* Front-end
  + To verify node.js and npm are properly installed, run node -v to check node.js version, then run npm -v to check npm version
  + To install the angular CLI globally, please run npm install -g @agular/cli
  + Use the VS Code IDE open the angular file swe642-Survey, and use the built-in command line to access the survey form by
    - type “npm install”
    - then type “ng serve --open”
    - shows “Compiled successfully.”,
  + now, the setup process completed. You can visit the survey form via <http://localhost:4200/surveyform>