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| **World Countries Report** **Introduction:** This report is about the implementation of a single web page site using the knowledge gained from previous lectures and projects.  I have approached this project using Nodejs as the back-end server to serve up the files also the Node modules to preform operations, I implemented a single web page that uses web API about Worlds Countries to allow the user to search in the country list and view the facts about each country they search for.  I achieved that by the client-side JavaScript communicating with the server-side JavaScript using ExpressJS to handle HTTP request that is being sent from the client.  The user will be able to sign up in the data base and their information will be stored then they can login using the information they signed up with.  **World countries API**  [**https://restcountries.eu/**](https://restcountries.eu/)  I am using this API to pull information about countries then display it on the website.  This is achieved by using a synchronous function in java which is a promise-based behavior to extract the information from the API for different countries then using a function to display the countries in an HTML form. |
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| **Data base design**  Name: **student project**  Tables:  **User:** the user will be able to sign up in the database then login into the website.  **University:** this field will collect data of student’s university, the idea behind this is to count the students at different universities that registered on the website  **Countries:** this field will collect data of student from different universities of different countries.  The purpose of the website is to collect data such as language, background, age, level of study and type of major to make their experience more personalized for a potential to use the website.  Current database:    Final database should look like this: |
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