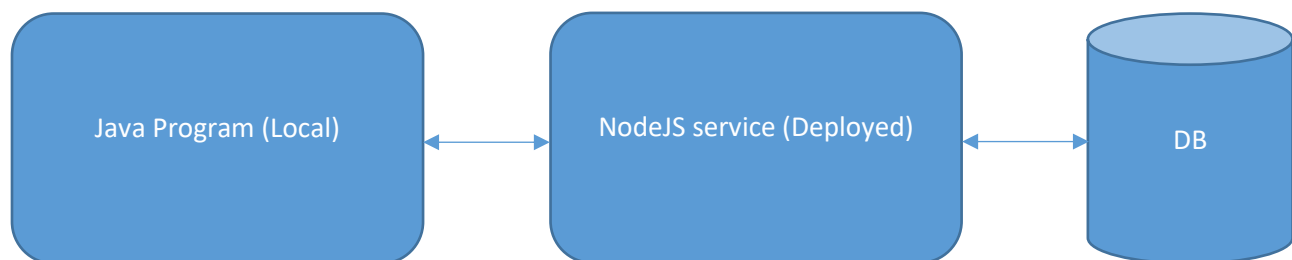


## Final Project

For the final project of the course, you are required to create a program that would need the whole skills set you have learned in the program. You are going to create a virtual bank with following features:

- Authentication: Users would be able to register (sign up) and create bank accounts.
- All the information regarding the accounts would be stored in a database and users need to authenticate before accessing their information.
- You would have to add methods and functionalities as much as you can. Your program should contain the main functionalities such as withdrawing and depositing and checking the information, etc. But you should also think of new functionalities for your program. You can be as creative as you want with these functionalities.
- Your program would have a UI that would give the user access to your functions.
- Using NodeJs you would create a service that would handle the request from the users. Authentication also would happen to the server using your NodeJS service.
- You would use HTTP requests to communicate between different parts of your program (RESTFul APIs).
- The database has been simplified. You would be able to perform all the functionalities that you need to do by simple HTTP calls.
- Your final grade would depend on the quality of your program, aesthetics, and amount of creativity and innovation in your features.
- In addition to the customers, analysts and advisors should also be able to login with the same platform. New analysis features would show up for analysts. These features are completely up to you. You can use your banking and statistics knowledge that you have learned in the program so far to add new features for analysis to the program.

The general scheme of the project would be as follow:



The Java program should have the following features:

- Contain the UI for the program.
- Modularization of the project would be one of the main factors for quality of the project.
- Main features and functionalities of the project would be included in the Java program.

The primary function of the NodeJs service would be:

- Authentication
- Handling the Java program requests for database