Awesome labs

Technical Assessment Task

Hi folks,

This assessment task is to test your basic understanding of how web services work and how they are consumed in mobile applications. This assignment is divided into 3 modules which are Database programming, Server side programming and mobile application.

Module 1: (Database programming)

Target platform: MySQL database.

Description:

1. Create a table and name it TUserDetails with a column ID and other columns should be (Name, Address, Phone number etc.,)
2. Write a stored procedure to insert data into the TUserDetails table.
3. Write a stored procedure to retrieve date from TUserDetails table which takes the parameter ID.
4. Make a db script which will automatically add the table and execute the stored procedure (ex: local setup script to add your tables to our database to evaluate)

Module 2: (Server Side programming)

Target platform: PHP web service.

Description:

1. Create a php web service with two api's in it.
2. First api is a post api which takes in a http request as a POST and body as JSON with the parameters that are declared in the above database module. (the idea here is to make the service store the data in to the database via stored procedure). This api should send a response which indicates either a success or a failure in a JSON format.
3. Second api is a GET api which takes in a http request as GET and url parameter as ID (refers to the above database). The service should use the ID parameter and make a call to the stored procedure to get the data tied to that ID and return the response in a JSON Format.

Module 3: (Mobile Application)

Target platform: Android Application

Description:

1. Make an android application which consumes the above created web service.
2. The app should contain two pages.
3. First page should contain a form which takes the parameters that are there in the table and a submit button.
4. Once the submit button is hit, the android application must make a http web request to the webservice and build a JSON Body using the form data collected and make a web request. On successful, call parse the response and display as an alert box to the user.
5. Second page should contain a read only form with a text box which takes in the Id and a submit button.
6. Once the submit button is hit, the application should make a url http get request to the webservice with the id appended to the url.
7. Upon successful request parse the JSON response and display the contents in to the read only form.

Extra Credit:

1. Add validation and pass appropriate error message as response JSON in the server side (ex: invalid user id, or cannot find the id, etc.,)
2. Add validation to the input form in android application to take only valid email, valid phone numbers etc.,
3. Handle the error response from the server and show the response to the user.

This is the end of the tasks, we understand that this is a pretty intense task to start with, but this will actually help us evaluate if you can fit our requirements as we deal with most of this stuff. We hope you will enjoy doing this task as it is really exciting to actually build a complete prototype.

We sincerely thank you for your interest in Awesome Labs. If you have any queries about the task please feel free to contact sai@rideoncab.com srathan@rideoncab.com (if you contact please send the email to sai@rideoncab.com and cc srathan@rideoncab.com