Exam Preparation Question 2

1. Apache Cordova is the prevalent toolkit for developing cross-platform mobile client applications

    a. Describe the distinctive technical features of Cordova and explain why its model of application development has become so popular among developers.

    b. What additional work a developer has to do to distribute a Cordova application as widely as possible, and describe how the Cordova Build service has done something towards mitigating this additional cost while not eliminating it

2. The Cross Origin Policy is a restriction that applies to all browser-based Web-Apps.

    a. Describe what the cross-origin policy for browsers is, and explain a situation where it would apply.

    b. Describe the JSONP format, explaining how it differs from simple JSON and how a web-service's response to a cross-origin request is modified to match the JSONP requirements.

    c. Write the JSONP code that would be used to encode a *list* of (name, email_address, credit_limit) values retrieved from a web service, given that the callback is to a function called show().

    d. Explain how an asynchronous request for data to a web service could be made from a web-application, giving the name of the established technique normally used for this and describing the general process.

3. You have just won the contract to develop a web-client app that allows the customers of a small employment agency to store and maintain their customer's details online. It is expected that customers will provide their details by filling in a web-form distributed as a mobile app.

    a. Explain the facilities that will be needed to host and provide a web-service that will be able to store the data

    b. Briefly compare and contrast the different options available for hosting the site and justify your selection in terms of facilities and functionality offered.