

Date: 11.1 basic uml and diagram 12. example

[Business](#), [Management](#)



Date: 20/01/2018 Student name: Adris iqbal Abstract The following report will be written with the best of knowledge I have about the following topics that are stated in my assignment 'Appraise and evaluate available technologies for the development of applications for mobile devices such as smart phones, tablets and smart TVs' along with ' Interpret user expectations in the context of mobile applications' and lastly about ' Evaluate and apply emerging technologies for the creation of novel mobile application'. Table of contents

1. Abstract
2. Analysis of available development tools
3. 1 BuildFire.js
2 Framework
3. Debugging and optimisation techniques
3. 1 optimisation techniques

4. 2 Debugging
4. Unittesting approaches
5. Use of version control
6. Support for Multimedia and potential issues
7. Application and data security
8. Deployment of application in the cloud
9. Application development approach (Project Management)
10.

A brief outline of the mobile application advantages and limitations
10. 1 Advantages
10. 2 Disadvantages/Limitations
11. Wireframe diagrams
11. 1 Basic UML and diagram
12.

Example Pseudocode
13. Conclusion
14. Reference list
Appendices
2. Analysis of available development tools they are many development tools for mobile application that would help you to improve your app such as BuildFire.js and framework
7. 1. BuildFire.js is a cross stage library used to construct custom usefulness in BuildFire's stage.

It permits boundless customization with only JavaScript, making it one of the most straightforward to execute structures. Utilizing the current usefulness of the BuildFire stage BuildFire.js enables designers to easy route 80% of the application advancement process by utilizing any of the 45+ open source modules that exist and just concentrate on the custom usefulness that is required. 2. 2 Framework 7 used to be iOS just, however now offers Android bolster too.

In the event that you need to build up an application that closely resembles a perfect iOS application even on Android, Framework 7 is for you. It's additionally straightforward, as long as you as of now have a fair information of HTML, CSS, and JavaScript. A portion of the highlights of Framework 7 incorporate Material Design UI, a custom DOM library, 1: 1 page movement, local looking over, and XHR reserving and preloading. 3. Debugging and optimisation techniques

3. 1 Optimisation techniques Optimisation or ASO is a method for guaranteeing your application meets application store positioning criteria and ascends to the highest point of an indexed lists page. Be that as it may, how improves discoverability in an application store? Below are many techniques one that should follow in brief:

- Understand your customer and your competition is really
- Chose the right app name
- Stand out with a good logo
- Include screenshots and videos in the app
- Increase traffic with outside promotions such as advertisements
- Update the app often

2 Debugging Debugging and errors and be prevent such as for an example google chrome when it crashes it gives you the option to send the crash

report to google so they can avoid it from happening again likewise with the app you create you can set up that up and prevent the customer from experiencing it in the future. There are various troubleshooting strategies like the Brute Force Method, This procedure is most typical and scarcest beneficial for limiting the explanation behind an item botch. We apply this procedure when all else miss the mark. In this system, a printout of all registers and correlated memory regions is obtained and inspected. All dumps should be particularly revealed and held for possible use on coming about issues. You additionally have the Back-Tracking Method. It is an extremely surely understood approach of researching which is used effectively if there ought to be an event of little applications.

4.0 Unit testing approaches

You can test the mobile app in many ways such as get 5 people you know such as family or friends to take part and test the app and give you feedback or even pay 5 random strangers to use the unit and give feedback that you can then improve on. Testing approaches depend upon where you are in the wander and your "monetary arrangement," to the extent time, money, work, require, et cetera.

Ideally, unit testing is arranged into the change methodology, however sensibly, we much of the time encounter existing or legacy programs that have no code scope yet ought to be updated or kept up.

5. Use of version control

What is "version control", and for what reason would it be advisable for you to mind? version control is a framework that records changes to a document or set of documents after some time with the goal that you can review forms later.

For the cases in this book, you will utilize programming source code as the documents being form controlled, however in all actuality you can do this with almost any kind of record on a PC in other words it is a backup for an example save the current version of the app and if you were to get create a upgraded version and it was to crash you could restore it to the old version quick.

6. Support for Multimedia and potential issues The potential issues you might come across is the most common of them all if the device does not support this multimedia so you would have to program the application to be suitable and operate on all phones another multimedia potential issue you may come across is colour in the application you don't want it to be too bright nor too dull or even the background sound you just want it to fit in all comes down to testing the application out you would need feedback from different age groups to decide what is suitable for the application.

7.

Application and data security Security is a crucial part in application development and creating as if you do not have good security hackers can get hold of all your customer details and steal your revenue by hacking their way many companies have departments that take care of data security.

8. Deployment of application in the cloud Before you send your application to Cloud Foundry, ensure that:

- Your application is cloud-prepared. Cloud Foundry practices identified with document stockpiling, HTTP sessions, and port utilization may expect alterations to your application.
- All required application assets are transferred.

For instance, you may need to incorporate a database driver.

- Unessential records and antiquities are rejected from transfer. You ought to unequivocally avoid superfluous documents that dwell inside your application index structure, especially if your application is extensive.
- An example of each administration that your application needs has been made. · Your Cloud Foundry case bolsters the kind of application you will send, or you have the URL of a remotely accessible buildpack that can organize the application.

9. Application development approach (Project Management) Programming improvement is the way toward making new programming arrangements or altering existing programming arrangements. Programming can be outlined and created in a wide range of ways. The approach taken to outline and build up a product bundle can shift from the extremely straightforward, constrained arranging way to deal with an exceptionally nitty gritty, formal and organized approach. In this point you will contemplate four normally utilized ways to deal with programming improvement.

- Organized Approach · Spry approach · Prototyping Approach
- Quick Application Development Approach · End-User Approach
- Choosing a suitable advancement approach

10. A brief outline of the mobile application advantages and limitations They are many advantages and disadvantages/limitations regarding mobile applications I could write a whole essay below are a brief outline of the keys one that I think are important. 10.

- 1 Advantages · Creating an app overall makes life easy for the user, the more features they have the more fun convenient user experience. · You

can create a decent revenue as a business from successful applications. The application can build your brand name up 10.

2 Disadvantages/ Limitations: High cost of creating and developing the application/ maintenance of the application. Profit sharing between company partners and workers etc. Challenges in tracking and getting new data as you may literally run out of ideas on what to do next on the application that may limit your company and you may lose customers.

11. Wireframe diagrams and basic UML A 'wireframe' is a portrayal of the framework to be manufactured. It's straightforward, clear and permits everybody to peruse and see effortlessly. ; Wireframe' indicates "simply enough" data of the screen rather than the full points of interest. The real screen configuration will be delivered at a later stage by referencing the 'wireframe.' You can demonstrate the situation to your client outwardly to acquire assent about the prerequisites.

Below is a diagram of wireframe 11. 1 Basic UML UML is a method for envisioning a product program utilizing an accumulation of charts. The documentation has developed from crafted by Grady Booch, James Rumbaugh, Ivar Jacobson, and the Rational Software Corporation to be utilized for prototyping a plan, yet it has since been stretched out to cover a more extensive assortment of programming designing ventures.

Today, UML is acknowledged by the Object Management Group (OMG) as the standard for displaying programming improvement. 12. Example Pseudocode Pseudocode is very useful as it close to simple language programs can find out easy what is going wrong as it is written in basic English pseudocode is

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not actual programming language. Below is an example of a Pseudocode.

Making fundamental pseudocode isn't enjoying forming a genuine coding lingo.

It can't be joined or run like a standard program. Pseudocode can be formed

how you require.

In any case, a couple of associations use specific pseudocode dialect

structure to remain with everyone in the industry. Etymological structure

is a game plan of fundamentals on the most ideal approach to use and form

clarifications in a programming vernacular. By sticking to specific

accentuation, everyone in the association can read and appreciate the flow

of a program. This pushes toward getting to be sagacious and there is less

time spent finding and curing botches.

19. Conclusion Through out my report I have evaluated the available

technologies for the development of applications how you can improve them,

the advantages and the disadvantages you would have the problems you

may face how you can debug and even the multimedia issues along with

examples that we may come across on a daily basis for an example when your

internet browser crashes it normally sends a report such as google

chrome would send the report to google so it can be prevented in the future as

it would be a bug. 20. Reference list Appendices