

ASSIGNMENT - 1

Name : Sahil Kaundal

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Subject : Mobile Application
Development

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Q1. List out the factors contribute to the success of mobile app.

Ans.

The factors contribute to the success of mobile app are :-

(i) Distribution channel :-

As develops we must firstly identify which platform best support our grand idea. Through google play store and apple app store service the same function they have different guidelines. we can view description, icon, logo screenshots or image gallery.

(ii) Audience research :-

To successful our mobile app we must first conduct audience research. By knowing audience involves understanding the industry and getting in-depth knowledge about the people that might take an interest in our app.

(iii) App idea :-

App don't come out of thin air. they start as brilliant ideas.

(iv) App development strategy :-
To properly execute our app idea, we must have a plan with future scope and user friendly.

(v) UI/UX :-
This is the important part which keeps users hooked on our app. Users prefer app that are handier compared to those that require too much efforts to operate.

(vi) Testing :-
Developing and designing our mobile app idea is only half of the job in your mobile app development journey. We must also run a few tests to ensure our design runs smoothly.

(vii) Security :-
Security must be part of our app development process. Users should not have to think of the threat of malware when they use your app.

Q2. Determine the steps to install and configure Android Studio and SDK.

Ans. Steps to install and configure android studio and SDK.

Steps :-

1. Head over to google and search Android Studio download to get the Android Studio executable or zip file.

2. Click on the download Android studio Button. Mark tick to all term and conditions . click on the save file button in the appeared prompt box and file will start downloading.
3. After downloading has finished open the file from downloads and run it . It will prompt the following dialog box - click on next . It will start asking a path for installation choose a path and hit next .
4. It will start installation , and once it is completed it will be shown completed .
5. Once finish is clicked it will ask whether the previous settings needs to be imported , or not . It is better to choose the 'Don't import Settings option' .
Click on OK button .
6. It will start Android studio at same time it will be finding the available SDK component .
7. After it find SDK component it will redirect to the welcome dialog box .
Click on Next .
8. Now it is time to download the SDK component click on finish component begin to download let it complete .
9. Click on start a new android studio project to build a new app .

Q3. Discuss about anatomy of Android application.

Ans:-

These are four building blocks to an Android application.

- Activity
- Intent Receivers
- Service
- Content Provider.

Not every application need to have all four, but our application will be written with some combination of these.

1. Activity :-

Activities are most common of the four android building blocks. An activity is usually a single screen in your application each activity is implemented as a single class that extends the activity base class.

2. Intent and Intent Filters :

Android uses a special class called Intent to move from screen to screen. Intent describes what an application wants done.

3. Intent Receiver :-

We can use Intent Receiver when we want code in our application to execute in reaction to an external event, for eg. when the phone rings, or when the data network is available, or when its midnight.

4. Service :-

A service is code that is long-lived and runs without

a UI. A good example of this is a media player playing songs from a play list.

5. Content Provider :-

Applications can store their data in files, a SQLite database, preference or any other mechanism that make sense. A content provider, however, is useful if you want your application's data to be shared with other applications.

Q4. Determine the mobile application development platform? Classify the mobile application development important?

Ans.

A mobile application development platform (MADP) is a type of software that allows a business to rapidly build, test and perhaps develop mobile app for smartphone and tablets.

Organization should consider several factors when selecting a mobile app development platform, depending on the type of application they want to build and deploy apps in an Agile environment and whether or not they need to be able to customize them.

The best mobile application development platforms should allow developers to build, test, debug, deploy and maintain apps throughout the applications lifecycles.

MADPs should also have extensive middleware and back-end services that deliver key features, such as push notifications, authentication and data storage.

Importance of mobile application development.

(i) A mobile app gives you a convenient platform to

platform to communicate with them through push notification updates and offers.

- (ii) Boost sales
- (iii) Reach a worldwide audience base.
- (iv) Stay ahead of the competition
- (v) Cost-effective marketing.
- (vi) Helps you stay organized.