ARC LAB'S

Communicate. Collaborate. Create.

Mobile Application Workshop details

Trainer	Trainer has 7+ years of experience in building "Mobile Application" from scratch.	Team	
		Department: MOBILE APPLICATION DEVELOPMENT	
		Point Person: Vamshi	
Bootcamp	• Workshop for 2 days • Workshop for 3 days • Workshop for 5 days	Contact Details	
		+91-9052454439 hello@arclabs.in techarclab@gmail.com	

Curriculum for 2 days workshop

Topic	Sub-Topics
Day 1	
1. Introduction to Mobile Application Development	• Overview of mobile applications • Importance and relevance of mobile app development
2. Introduction to MIT App Inventor	• Overview of MIT App Inventor platform • Understanding the user interface and components

3. Basic App Building	• Creating a simple "Hello World" app • Adding text, buttons, and images • Basic event handling and interaction
4. User Interface Design	• Exploring different layouts and screens • Designing interactive interfaces • Styling and customization options
5. Data Handling	• Working with variables and data types • Using lists and arrays • Saving and loading data in the app

Day 2

1. Advanced App Functionality	• Using conditionals and loops • Implementing user input validation • Incorporating multimedia elements (audio, video)
2. Working with Sensors and APIs	• Introduction to device sensors (e.g., accelerometer, GPS) • Accessing sensor data in the app • Integrating external APIs for additional functionality
3. App Testing and Debugging	• Identifying and fixing common errors • Testing the app on different devices • Troubleshooting and optimizing the app's performance
4. Publishing and Sharing Apps	• Overview of the app publishing process • Creating an APK file for Android devices • Distributing and sharing the developed apps
5.Project Development	• Participants work on a guided project to apply the learned concepts • Assistance and guidance from instructors • Presentation and sharing of developed apps

Certification	
Arc Lab certification	Certification will be provided by the company to individual students and also Merit certificate will be provided to those who performed well in the workshop
Ministry of education	Certification from the central govt will also be provided to add more value to the certificate

Curriculum for 3 days workshop

Topic	Sub-Topics
Day 1	
1. Introduction to Mobile Application Development	• Overview of mobile applications • Importance and relevance of mobile app development
2. Introduction to MIT App Inventor	• Overview of MIT App Inventor platform • Understanding the user interface and components
3. Basic App Building	• Creating a simple "Hello World" app • Adding text, buttons, and images • Basic event handling and interaction
4. User Interface Design	• Exploring different layouts and screens • Designing interactive interfaces • Styling and customization options
5.Data Handling	• Working with variables and data types • Using lists and arrays • Saving and loading data in the app
Day 2	
1. Advanced App Functionality	• Using conditionals and loops

	- Implementing user input validation - Incorporating multimedia elements (audio, video)
2. Working with Sensors and APIs	- Introduction to device sensors (e.g., accelerometer, GPS) - Accessing sensor data in the app - Integrating external APIs for additional functionality
3. App Testing and Debugging	- Identifying and fixing common errors - Testing the app on different devices - Troubleshooting and optimizing the app's performance
4. Publishing and Sharing Apps	- Overview of the app publishing process - Creating an APK file for Android devices - Distributing and sharing the developed apps

Day 3

1. Advanced Topics in App Development	- Handling advanced user input (gestures, touch events) - Implementing app navigation and menus - Working with databases and cloud storage
2. Multimedia and Graphics	- Incorporating advanced multimedia elements (camera, image processing) - Creating animations and visual effects - Implementing custom graphics and drawing
3. Project Development	- Participants work on a guided project to apply the learned concepts - Assistance and guidance from instructors - Presentation and sharing of developed apps

Certification

Arc Lab certification	Certification will be provided by the company to individual students and also Merti certificate will be provided to those who performed well in the workshop
Ministry of education	Certification from the central govt will also be provided to add more value to the certificate

Curriculum for 5 days workshop

Topic	Sub-Topics
Day 1	
1. Introduction to Mobile Application Development	• Overview of mobile applications • Importance and relevance of mobile app development
2. Introduction to MIT App Inventor	• Overview of MIT App Inventor platform • Understanding the user interface and components
3. Basic App Building	• Creating a simple "Hello World" app • Adding text, buttons, and images • Basic event handling and interaction
4. User Interface Design	• Exploring different layouts and screens • Designing interactive interfaces • Styling and customization options
Day 2	
1. Data Handling	• Working with variables and data types • Using lists and arrays • Saving and loading data in the app
2. Advanced App Functionality	• Using conditionals and loops • Implementing user input validation • Incorporating multimedia elements (audio, video)
3. Working with Sensors and APIs	• Introduction to device sensors (e.g.,

	accelerometer, GPS)
	• Accessing sensor data in the app
	• Integrating external APIs for additional functionality

Day 3	
1. App Testing and Debugging	• Identifying and fixing common errors
	• Testing the app on different devices
	• Troubleshooting and optimizing the app's performance
2. Publishing and Sharing Apps	• Overview of the app publishing process
	• Creating an APK file for Android devices
	• Distributing and sharing the developed apps
3. Advanced Topics in App Development	• Handling advanced user input (gestures, touch events)
	• Implementing app navigation and menus
	• Working with databases and cloud storage

Day 4	
1. Multimedia and Graphics	• Incorporating advanced multimedia elements (camera, image processing)
	• Creating animations and visual effects
	• Implementing custom graphics and drawing
2. Introduction to App Inventor Extensions	• Exploring available extensions for additional functionality
	• Integrating custom extensions in app development

Day 5	
1. Advanced Projects and Project Development	• Participants work on guided projects to apply the learned concepts
	• Assistance and guidance from instructors
	• Presentation and sharing of developed apps

2. Recap and Q&A Session	• Review of key concepts and topics covered throughout the workshop • Question and answer session to address any remaining doubts
Certification	
Arc Lab certification	Certification will be provided by the company to individual students and also Merit certificate will be provided to those who performed well in the workshop
Ministry of education	Certification from the central govt will also be provided to add more value to the certificate

NOTE: Throughout the workshop, emphasis should be placed on hands-on activities, teamwork, problem-solving, and critical thinking. The syllabus can be adjusted based on the age and skill level of the students and the available time for each session. Additional topics or challenges can be included to further enhance the learning experience.