



# **Mobile Applications**

# **Agenda**

- TEAM INTRODUCTION
- FOUNDATION PLAN
- NEXT STEPS
- GOVERNANCE & REPORTING



# Rajashekar - iOS Developer

#### Software Developer | Backend

8 years of experience in iOS application development and having knowledge of Android.



#### **Tech Skills**

Objective-C, Swift, java, Consuming Web Service, XML, JSON parsing, Push notification, Offline data storage, inapp purchases, Writing unit test cases.

#### **Application Development**

Extensive knowledge in iOS application development from scratch to app Store.

#### **Tools Knowledge**

GitHub, gitlab, SVN, Bitbucket.CI/CD pipeline, jira, xcode, PostMan, Xcode debugging tools.

#### **Domain Knowledge**

Automobiles, Loyalty card, Education, Fitness/HealthCare, e-commerce, EPUB, Tourism.

#### **Personal Interests and Hobbies**

Playing sports, watching movies, listening music, learning new technologies.



# Raghavendra - Android Developer

#### Senior Software Engineer | Mobile

5 Years of IT Experience in development of mobile applications and wrapper services.



#### **Tech Skills**

Java | Kotlin | Android | XML | SQLite | Room DB

#### **Application Development**

Executed various engagements involving development of customer facing mobile applications.

#### **Tools Knowledge**

Android Studio, JIRA, MS Office Suite, PostMan, Eclipse, IntelliJ.

#### **Domain Knowledge**

Travel, Education and Service Sector.

#### **Personal Interests and Hobbies**

Exploring new technologies and their implementations, Providing Solutions, Cricket Sports.



## Roshni - Mobile QA

#### Software Testing | Web and Mobile

5 Years of IT Experience in manual and automation testing with web and mobile applications.



#### **Tech Skills**

Appium | Selenium Webdriver | Java | PeopleSoft Test Framework (Oracle Tool)

#### **Application Testing**

Executed the Tests and found critical bugs that helped to improve the quality of product for both web and mobile applications (iOS and Android).

#### **Tools Knowledge**

JIRA, Jenkins, MS Office Suite, Eclipse, IntelliJ, Cucumber, Agile

#### **Domain Knowledge**

Travel, Sales, HRMS

#### **Personal Interests and Hobbies**

Learn and explore new technologies, Listening Music.



## **Foundation Phase**

Week	Planned Outcome			
Week 1 - Setup  - Environment Setup  - Creation of IDs  - Access to servers  - Overview of the Product Induction	Development Environment Setup Access Product Induction session(s)			
<ul> <li>Week 1 - Induction</li> <li>Overview of Various Mobile Applications &amp; High Level Code structure</li> <li>Understanding code, modules, libs, Assess bugs in JIRA &amp; Deep Dive Datix Anywhere application</li> <li>Pick up simple complex tech debts</li> </ul>	Architecture Overview and Functional knowledge sessions Simple Tickets			
Milestone #1 - Induction Complete				
Week 2 - Ram Up  - Fix first ticket for each developer  - Understand the process - PR, Merge, Release  - Deep Dive into Key modules (1-2)  - Understanding key modules	3-5 Priority Tickets			
Week 3 - Ram Up  - Continue to pick up simple tickets, based on modules of KT  - Deep Dive of modules(3-4)  - self study of modules (3-4)	5-7 Priority Tickets			
Milestone #2 - RamUp Complete & Initiate Measured	Support			



### **Foundation Phase - Outcome**

- Dev & QE setup of EDC Complete
- Access to code and document repositories
- Business and Functional Knowledge
- Clarity on Framework(s) & Architecture.
- Familiarity of Code Structure and Flow
- Knowledge on delivery lifecycle Process
- Definition of "Done"
- Goal setting for EDC productivity
- Plans and priorities for EDC



# **Next Steps**

Tasks	Owner	Date
Access to Git, Environments, Confluence (Doc Repo & JIRA)	Aaron D	08/24/2020
Schedule application (functional & technical) overview sessions	Suresh P	08/25/2020
Understand Datix Anywhere Technical Assessment	Mobile Team	08/26/2020
Start fixing Tech Debts	Mobile Team	08/27/2020
Discuss and agree on the QE Process & Acceptance Criteria	Suresh & Roshni	08/28/2020



## **Governance & Reporting**

#### **Architecture** Review

• Input: Requirement

Tools, technology.

frameworks to be

process guidelines





Solution Architect

and scope

used

Coding and

CTO Review

Output:

Technical Lead

**Daily Scrum call** 





Scrum Master

Team

- Input: Git, JIRA
- Output:
  - JIRA Updates
  - Resolve **Impediments**
  - Risks and Issues update
  - Code check-in with Pull requests and code reviews

#### **Weekly Status Reports**







Client Dev Accion Engagement Accion Delivery Manager Director

Manager

- Will combine mobile team updates with current weekly report
- Input: Weekly PPP
- Output:
  - Accomplishments
  - Sprint progress
  - Resource Utilization
  - Risk Mitigation
  - RAID Log

#### Bi-weekly meeting and Review







Client Sponsor, **Product Owner** 

Accion Sponsor, Engagement Manager, Delivery Manager

- Will combine mobile team updates along with current Bi-weekly report
- Input: Bi Weekly Leadership Update
- Output:
  - Risk Mitigation Plans of projects
  - Resource Requirements
  - Budgetary Approvals
  - Incremental deliveries of "Done" product



### **EDC Time Zone - The Fact and how we work**

- India follows the Indian Standard time. This time zone is different from that followed by the countries in the other parts of the world, where in for:
  - O British Standard Time is 4 hours and 30 minutes behind of Indian Standard Time
- EDC team would make sure there is overlap of 2-4 working hours
- The team leaders (TL, SM, BA) will be available for extended hours on emails, slack/whatsapp for any urgent/emergency items
- The executive leaders (Howard & Mikunj) will be available on BST time discussions and the delivery leaders (Ramesh and Venu) will be available 18x7



# **EDC Time Zone - Overlap Hrs**

Time Zones	BST	5:30 AM	6:30 AM	7:30 AM	8:30 AM	9:30 AM	10:30 AM	11:30 AM	12:30 PM	1:30 PM	2:30 PM	3:30 PM	4:30 PM
	IST	10:00 AM	11:00 AM	12:00 PM	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM	7:00 PM	8:00 PM	9:00 PM
Onsite / Offshore	Teams	EDC Team only								RLDatix & EDC Team			
Activities  Backend Development  Web Frontend Development							Meetings:      Daily Standup     Sprint planning     Reviews and Demos     Retros     Ad-hoc discussions  Blocker Resolutions:     Technical     Functional     Domain						



## **Datix Anywhere - QA Updates**

- Analysed current Datix Anywhere Mobile Application
- Drafted Functional Scenarios and Modules Link
- Created Test Cases & Plan Link
- Created Test Automation Framework for (A) Android (B) iOS using Appium & TestNG
- Created Test Automation Plan Link
- Started module wise automation scripts
- Conducted a round of Manual testing and found few defects out of which is one is critical defect (App Crash)



# **Appium Framework Snapshots - Android**

```
Sescréammentérobleduellest descricidentifient ▼ ▶ 6 € ■ ► □ C
ApplumAndroidProject arc main lava Da baseClassAndroid-
                               🔾 💠 🗘 — 📵 SandCarakelestara 💮 🐧 Additiona jara 💢 Chilling jara - 🕡 Attachturakelestaria
                                                    Deckage baseClassAndroid
  3 Brides
   W Bit Himireports.
   w Bill see
                                                6 Bumlic class BaseClassAndroid (

→ Bit main

          ▼ DF baseClassAndroid
                                                        muslic static AndroidDriver AndroidElement> capabilities (String apphase) thrown IOException (
               BaseClassAndroid

→ Di pageObjects

→ Bit resources

                                                            File appDir = mem File( manhaman "arc");
                                                            File app = new File(app@ir. (String) prop.get(appWame)); //Retrieve the key value from the properties file
               Report
                                                            DesiredCapabilities caps = new DesiredCapabilities():
            g global properties
          Bit resources
      - Better
                                                            caps.setCapability(MobileCapabilityType.DEVICE_MAME, india "device"); // for smulator
                                                            caps.setCapability(MobileCapabilityType.AUTDMATION.NAME. video "ulsufpration");
                                                            caps.setCapability( docabilityName: "sufpGrantPermissions", selection);
                                                            coot.setCapability(MobileCapabilityType.AFF.app.petAbsolutePath()):
                                                            driver = new AndroidDrivero(new URL( spec "hitp://127.8.8.114723/ad/hun"), caps);
                                                            oriver.manage().timeouts().implicitlyWait( **** 49, TimeUnit.SECONDS);
        app-debug apk
        app-debug spk.ideig
     ApplumAndroldProlect.lml
                                                        sublic static void getScreenshot(String s) throws IDException (
                                                            File srcFile = ((TakesScreenshot) drIver).getScreenshotAs(OutputType.FILE):
   Scratches and Consoles
 Count III 1000 G & Problems III Terminal
```





# **Appium Framework Snapshot - iOS**

```
MOSPreject on many lava Da haseClassIOS
                                                      O 4 0 - O BusiOSian O Address and O Descriptional O Description Of the Conference of
                                                                                                        cackage maseClassIDS
   > $6 idea
    w Bit src
                                                                                      NY 05 | public place Base105 (
        ₩ main

    De baseClassiOS

                                                                                                                sublic static IDSDriver<IDSElement> capabilities(String appRame) thrown IDException (

→ Em pageObjects

                             Describeincident
                                                                                                                         FileInputStrese Fis a new FileInputStrese( Name System.getProperty("gear_nir") + "/ara/main/inva/globel.properties")
                             IncidentDetails
                  * Di resources
                                                                                                                         File applie = new File( parties "arc");
                  ~ Di utils
                                                                                                                         File up a new File(appDir, (String) prop.get(appDame)): //Netrieve the key value from the properties file
                        of plobal properties
                                                                                                                         DesiredCapabilities capabilities * rew DesiredCapabilities():
        → Bit test
                                                                                                                          capabilities.setCapability(MobileCapabilityType_PLATFORM_VERSION, value "15.6");
                                                                                                                          capabilities.setCapability(MobileCapabilityType.PLATFORM_NAME, value "155");
                                                                                                                          sapabilities, setCapability( countries "autairantPermissions", but tree);
                                                                                                                          capabilities.setCapability(MobileCapabilityType.AUTOMATION.NAME. AutomationName.IOS.XCUI.TENT)
  > litt test-output
   Scratches and Consoles
                                                                                                                         shiver manage().timeouts().implicitlyWait( Now AB, TimeUnit,SECONDS):
                                                                                                                sublic static vaid getScreenshot(String a) thross IdException (
IS 7000 O S Problems Suite IS Terminal
```





1916 LF UTF-B Aspeces 5



# Thank you!

