



# DEVELOPMENT Part-2

# Group- 01

P.Kavina

S.K.Kamaraj

S.Marceline Peter

S.Praveen Kumar

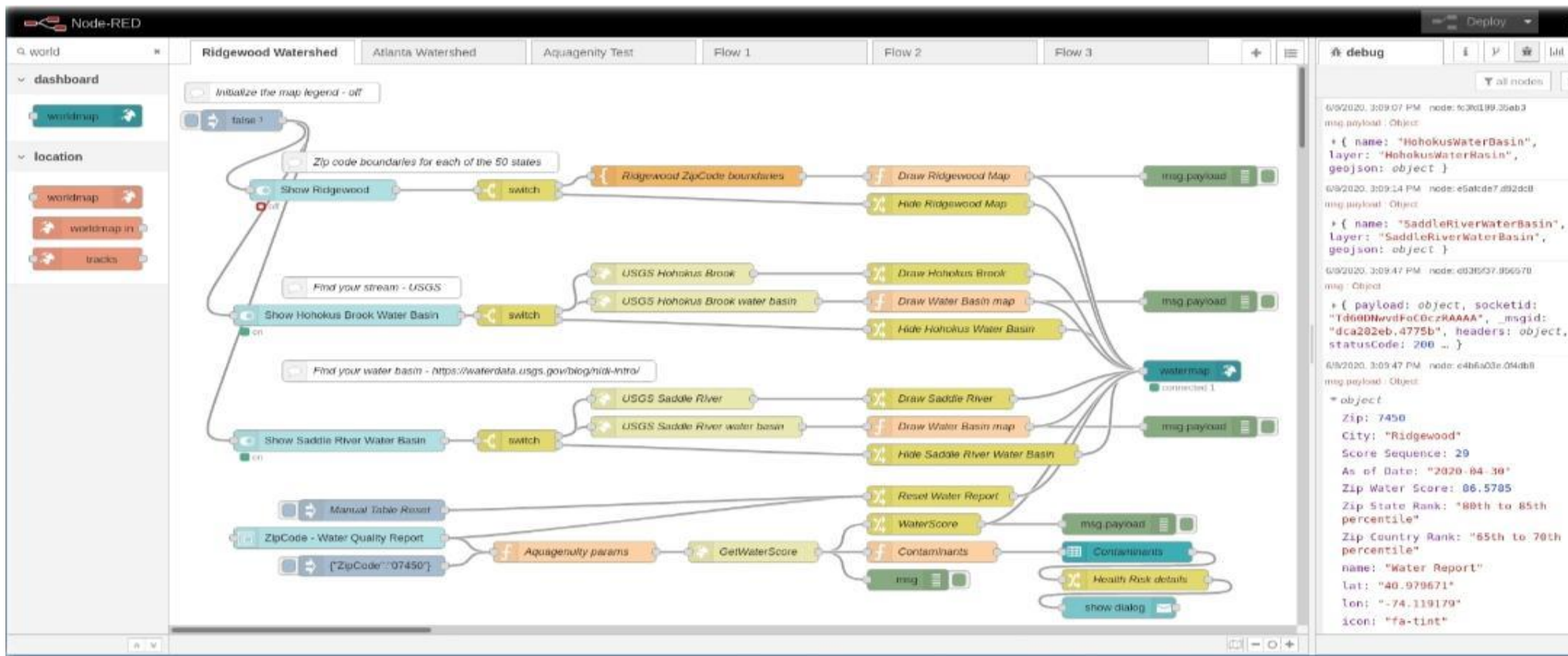
K.Sathya

S.J.Siva Dharshini

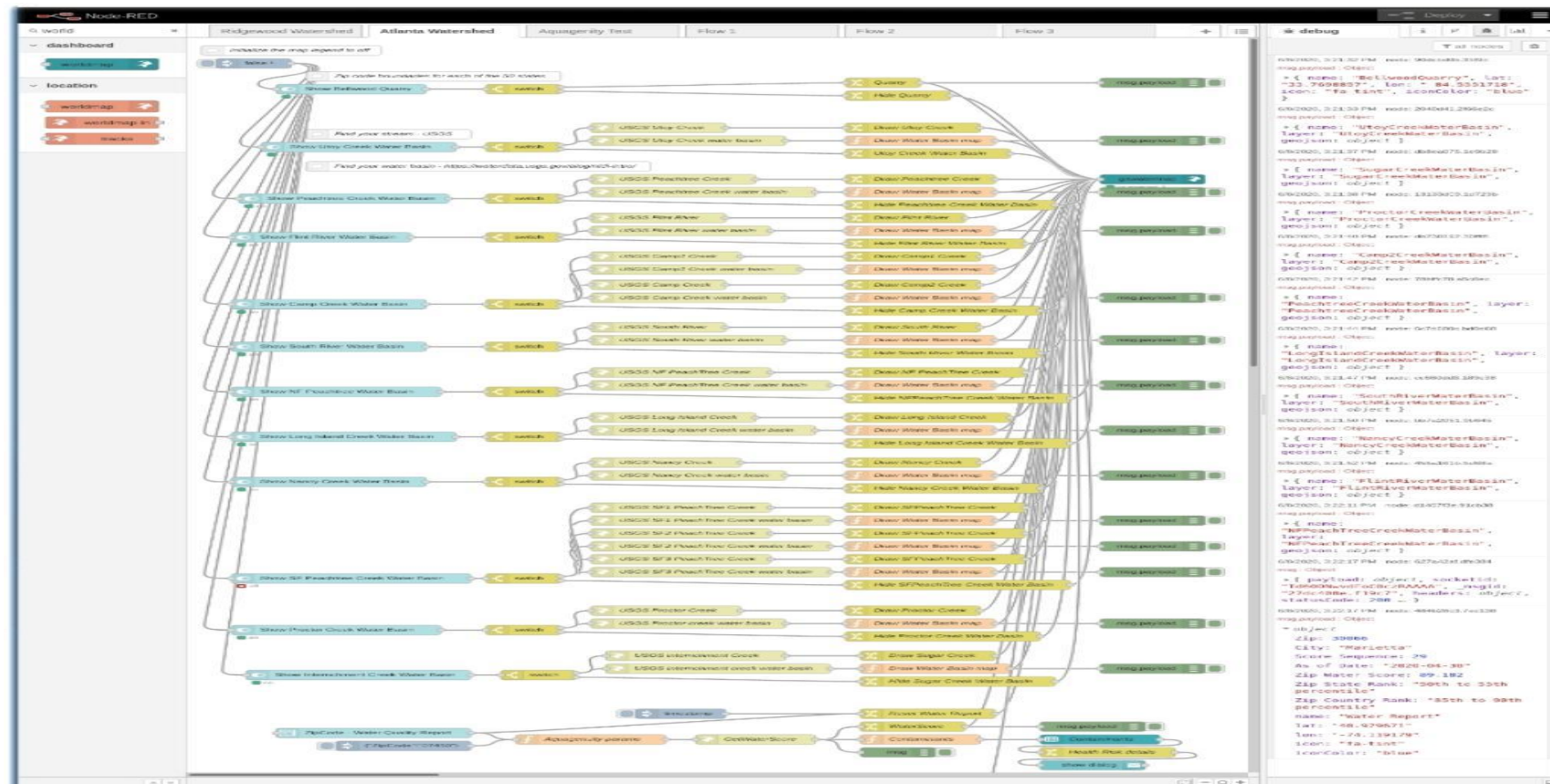


# NODE-RED SERVICE

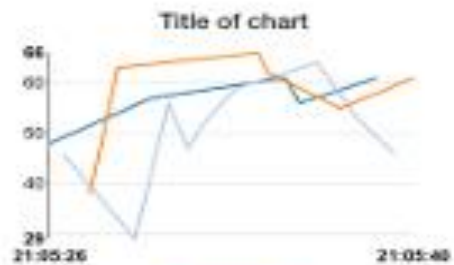
100



# Build a flow that displays the Atlanta GA watershed on a map



3rd



slide

61

First



Title of Gauge



Stuff

numeric

▼ 0 ▲



Second

slider

slider2

slider3

Title of Gauge

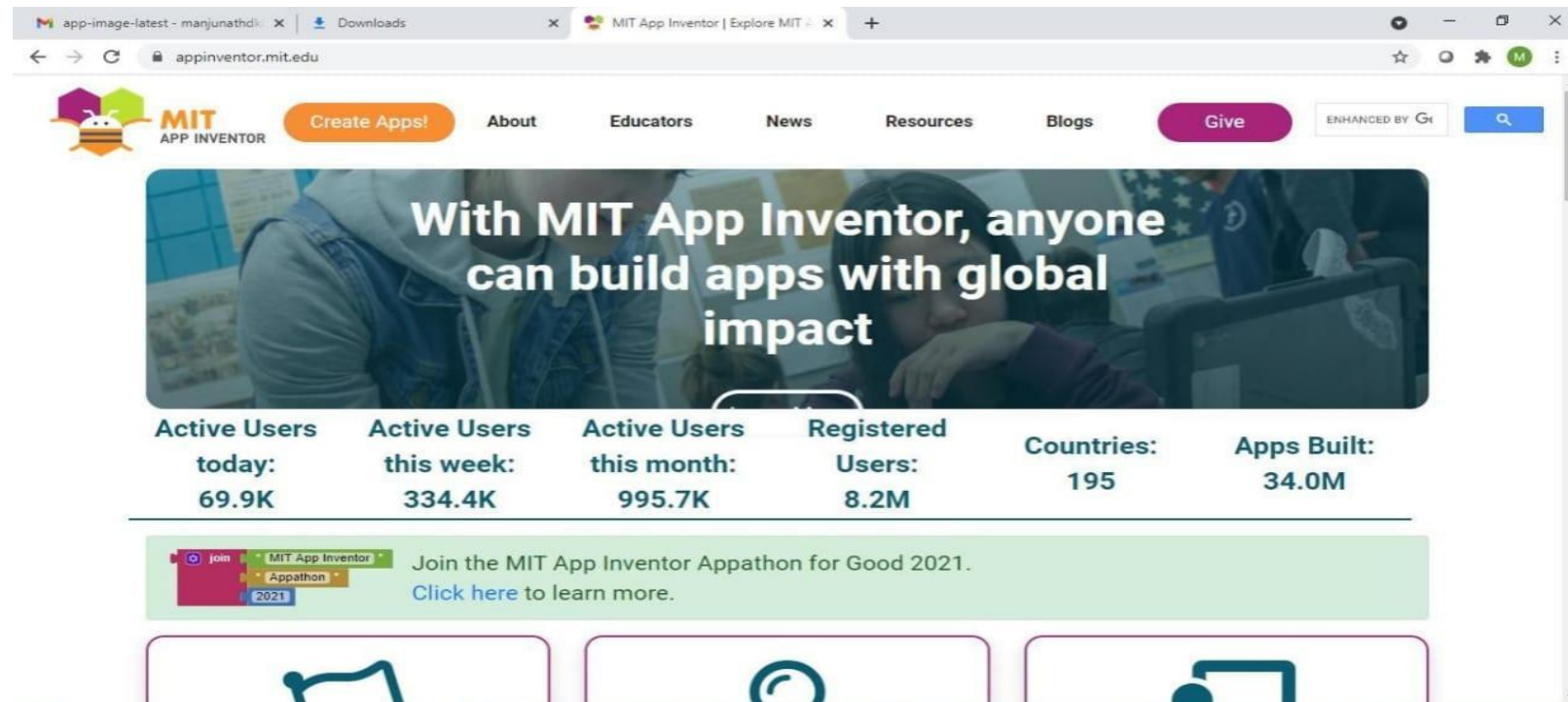


Select an Option



# Mobile application development using MIT app inventor

# MIT app inventor Home page



The screenshot shows the MIT App Inventor website. The browser address bar displays 'appinventor.mit.edu'. The navigation bar includes the MIT App Inventor logo, a 'Create Apps!' button, and links for 'About', 'Educators', 'News', 'Resources', 'Blogs', and a 'Give' button. A search bar is also present.

The main banner features a background image of students working on computers, with the text: "With MIT App Inventor, anyone can build apps with global impact".

Below the banner, a statistics section displays the following data:

Active Users today:	Active Users this week:	Active Users this month:	Registered Users:	Countries:	Apps Built:
69.9K	334.4K	995.7K	8.2M	195	34.0M

Below the statistics, a green banner promotes the MIT App Inventor Appathon for Good 2021, with a 'Join' button and a link to learn more.

At the bottom, there are three icons representing different app categories: a person, a clock, and a smartphone.



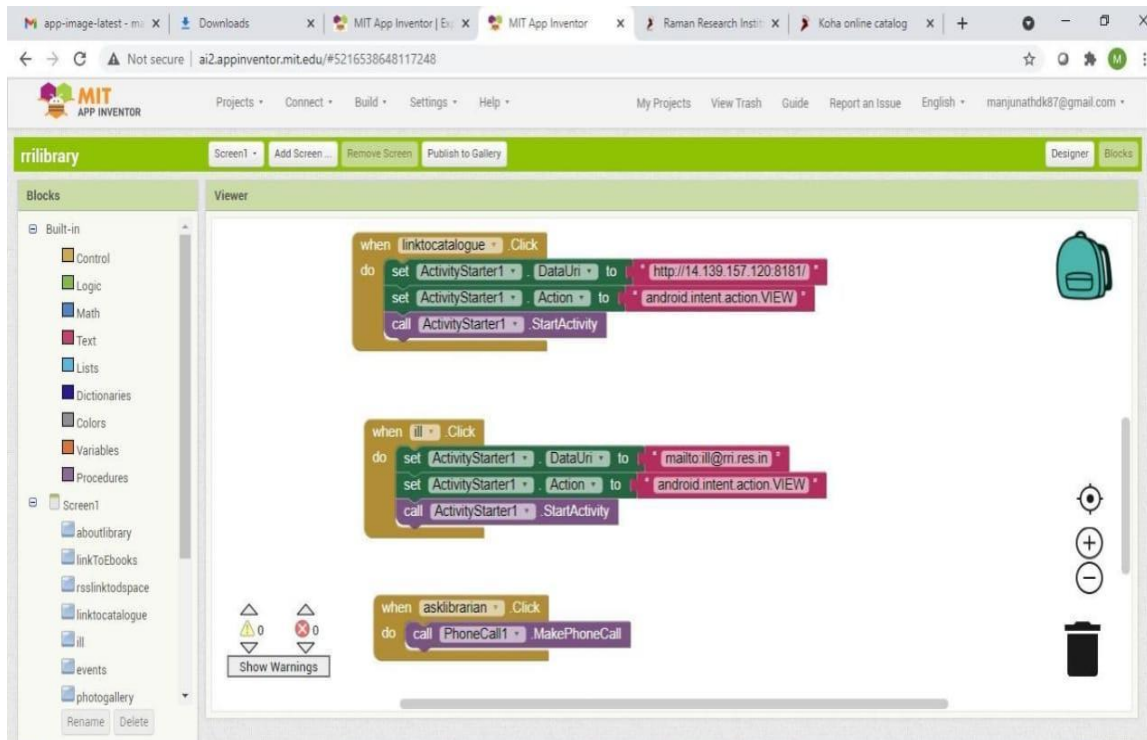
# MIT App Inventor Features

- ▶ **Browser-Based:** The best part of MIT App Inventor is it runs on any browser; hence, the developers or the users don't need to install any supporting software onto their computer. The MIT tool works with the user's existing Gmail account.

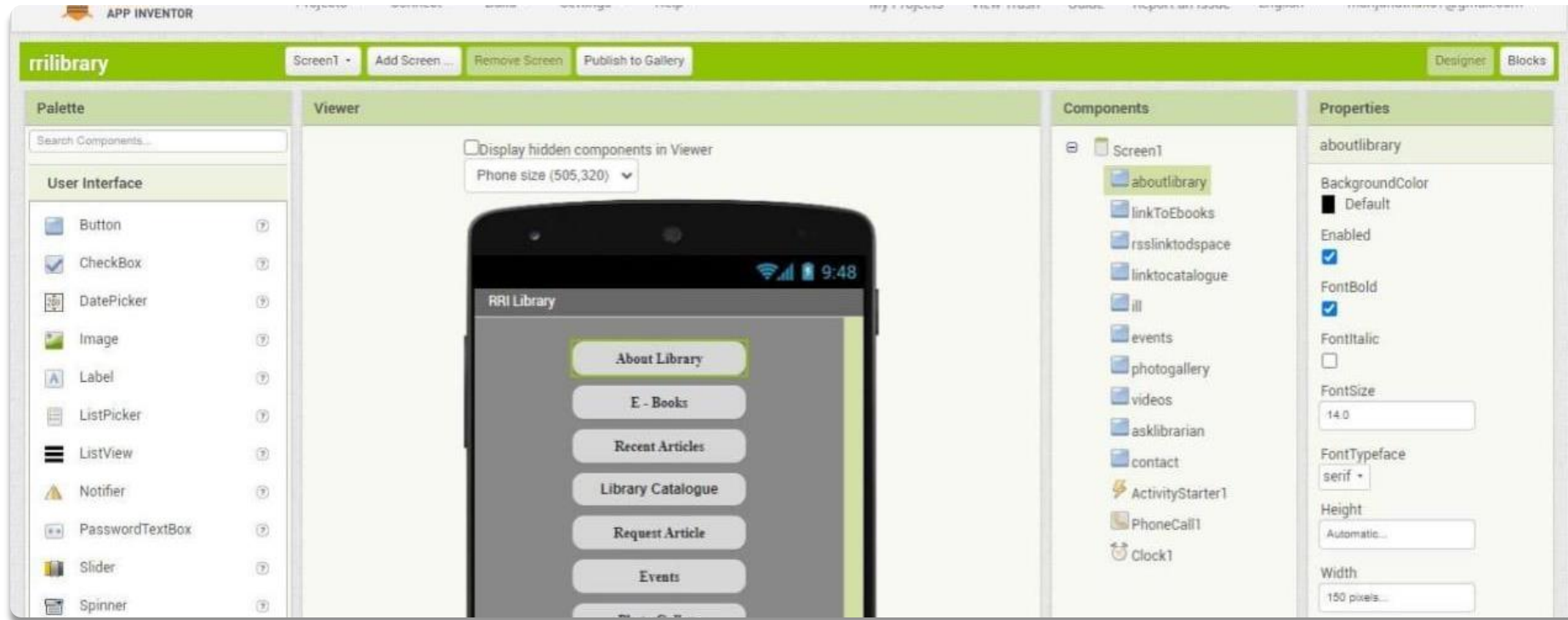
The MIT App Inventor is **cloud-based**. All the app-related projects will be stored on Google Cloud. Therefore, there is no need to keep anything on laptops or computers. Being browser-based, the tool allows users to log in to the account from any device, and all the work will be synced with the cloud database.

The MIT App Inventor's **real-time testing** provides a standalone emulator that enables us to view the behavior of the apps on the virtual machine. There is an MIT AI2 Companion app available on Google Play Store. One has to download and install the app onto a mobile/tablet to test the app that they are working on.

# Design and implementation



- ▶ Block Editor for specifying how the app will behave



Designer or design Editor For specifying how the app will look

# App Development process..

- ▶ Before starting the project, the authors discussed it with library colleagues and with some library users. The first discussion was among library staff. One of the authors briefed them on the technological trends and the importance of having a mobile application for the library which can be used to enhance their services. During the discussion, there were suggestions to go for outsourcing the application development project. Still, it was decided to develop a mobile application for the library using a free tool in the later stage.

# Library Catalogue



- Using KOHA software, the library catalog has been computerized, and the OPAC is available for access to the readers both within and outside the Institute campus. A link to the KOHA OPAC has been provided through a mobile application which users can search the library catalog on the go. Also, users can log in to their respective accounts and check their account details, list of books borrowed, their reading history, and many more. the blocks used to link the RRI Library Catalogue.

# Conclusion....

- ▶ Mobile technology has created a paradigm shift in the new tech savvy world. This shift requires libraries to develop mobile technology plans, design mobile marketing strategies, and develop best practices for mobile services. The MIT App Inventor may be considered a helpful tool for library professionals to meet the users' requirements through handheld devices. Its design and implementation process allows anyone without programming skills and prior programming experience to develop mobile apps. The drag-and-drop visual programming tool for designing and building fully functional apps for Android lets users quickly design and arrange interface components and connect logic blocks to create mobile applications. The authors

“

**Thanking you....**

”