



## Project

**GENERAL DYNAMICS**  
Mission Systems

**Client:** An aerospace and defence company that creates life saving systems along with **tactical radio modems**

**Method:** An Android application that connects to a radio modem and provides an **email system** for communication

**Impact:** An **easier and quicker** way for the client to communicate with their peers

- File / camera transmission
- Radio connection presets
- Auto-send functionality

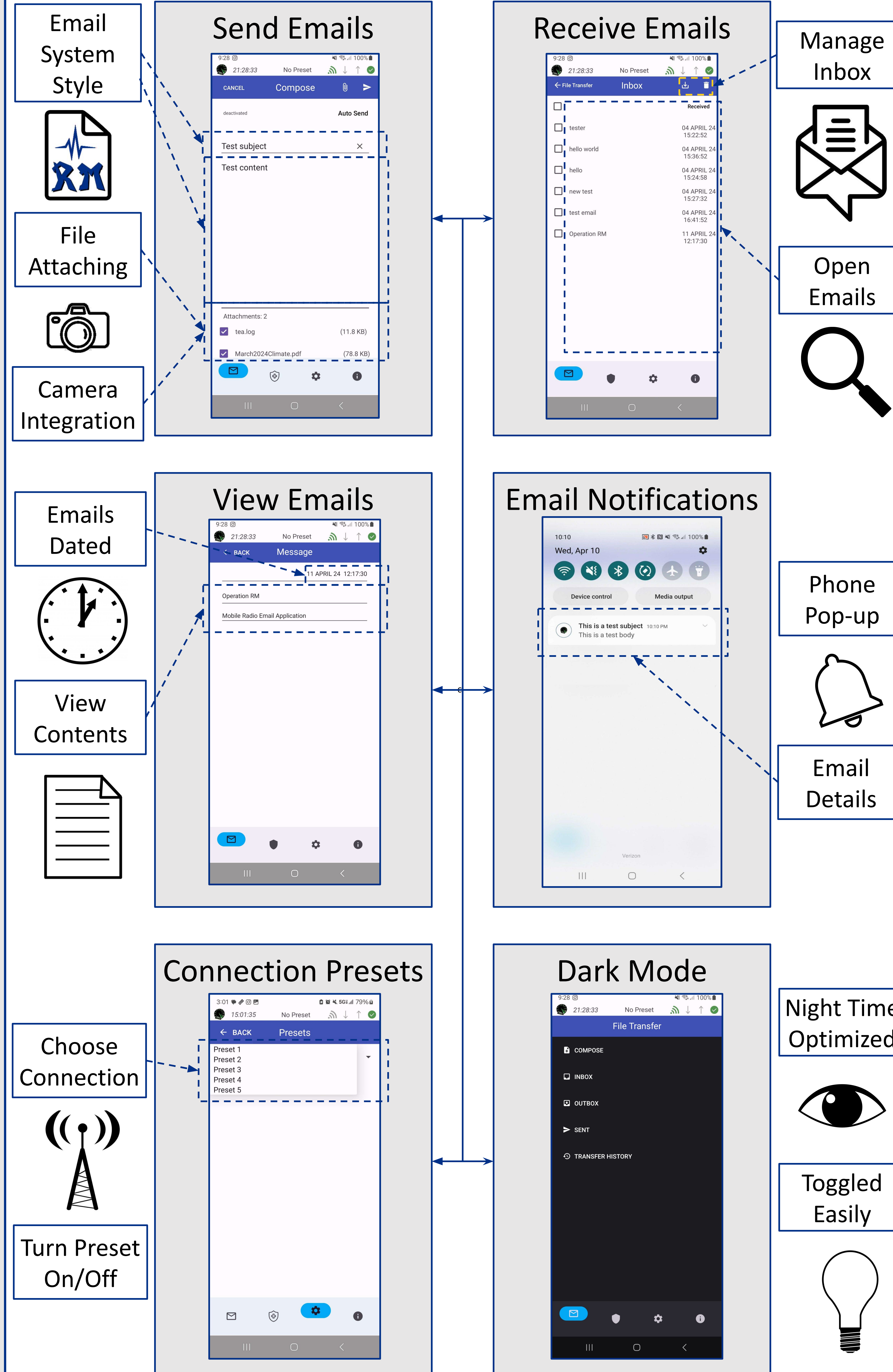
## Overcoming Challenges

- ✓ **Initial Radio Connection:** Assistance from the client and persistence was the solution
- ✓ **C and Java Communication:** The solution to this is using the Java Native Interface (JNI)
- ✓ **Remote File Transfer:** The solution was researching a desirable software library

## Testing

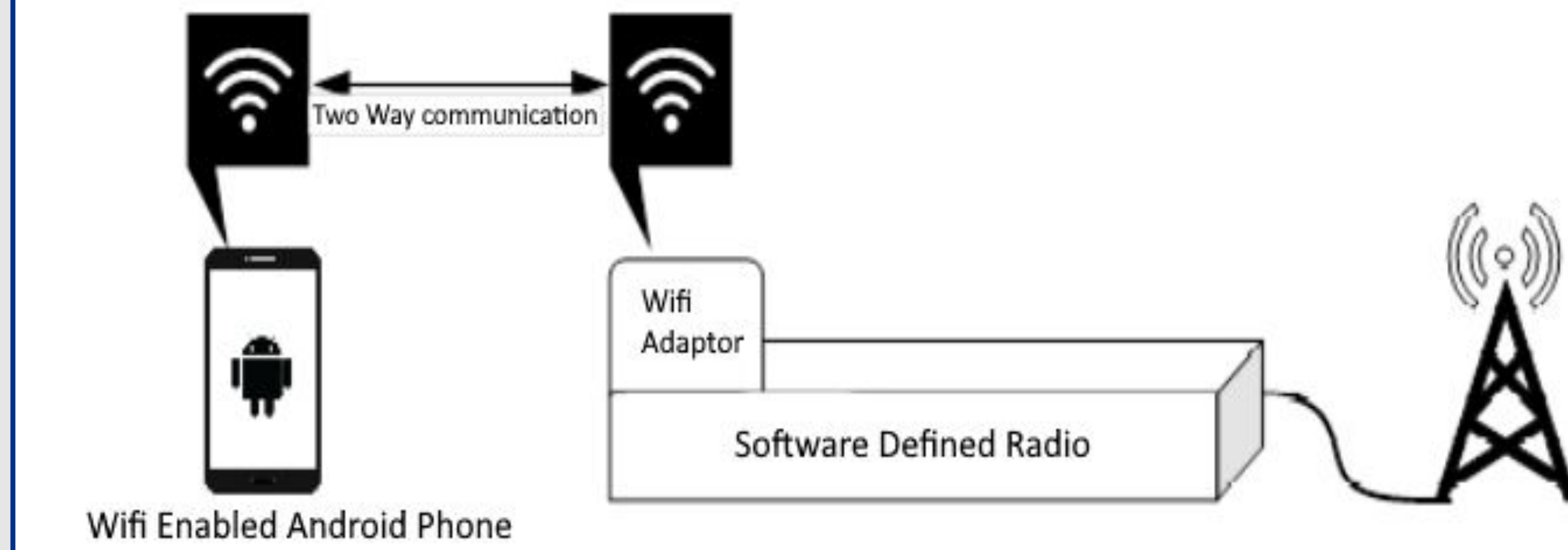
Testing primarily consists of **usability** testing along with a mix of unit and integration testing. These tests will make sure that the application is **robust** which is an important part for the project.

## Key Features

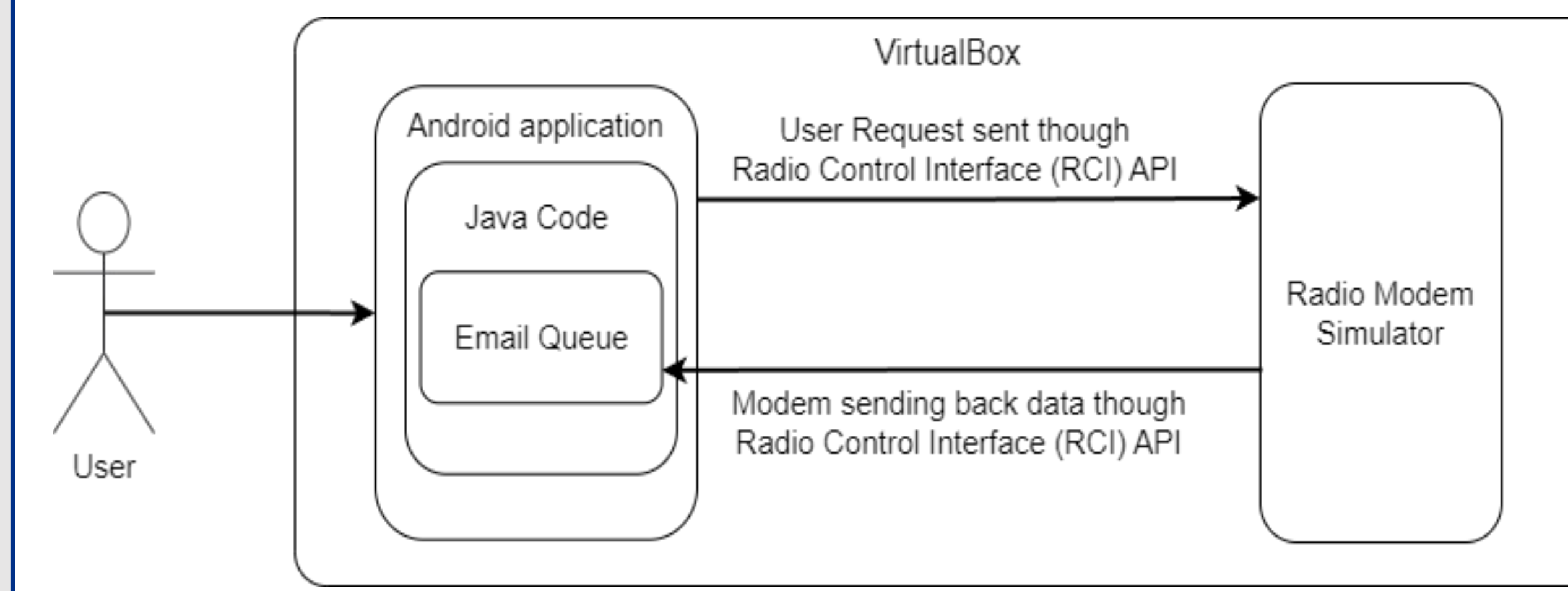


## Architecture

### System architecture:



### Software architecture:



## Technologies



## Outcomes

The project successfully **controls** the radio modem so emails can be **sent** and **received**. Integration with Android OS allows the application to demonstrate the usefulness of using a **mobile device** with this type of application.

