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## AWS Documentation

### Description

Improve your AWS knowledge with the AWS Documentation App. View all of the available documentation for various AWS services such as EC2, VPC, and S3. Save documentation pages for offline viewing and share them with coworkers and friends.

The AWS Documentation Android App was developed for both aspiring AWS users and seasoned professionals as a helpful guide and tool. Bringing the documentation to a mobile friendly platform will make it easier for users to access and utilize as a study guide.

#### Permissions Notice

AWS Documentation may ask for permission to access the following features:

- External storage for downloading offline data

## Intended User

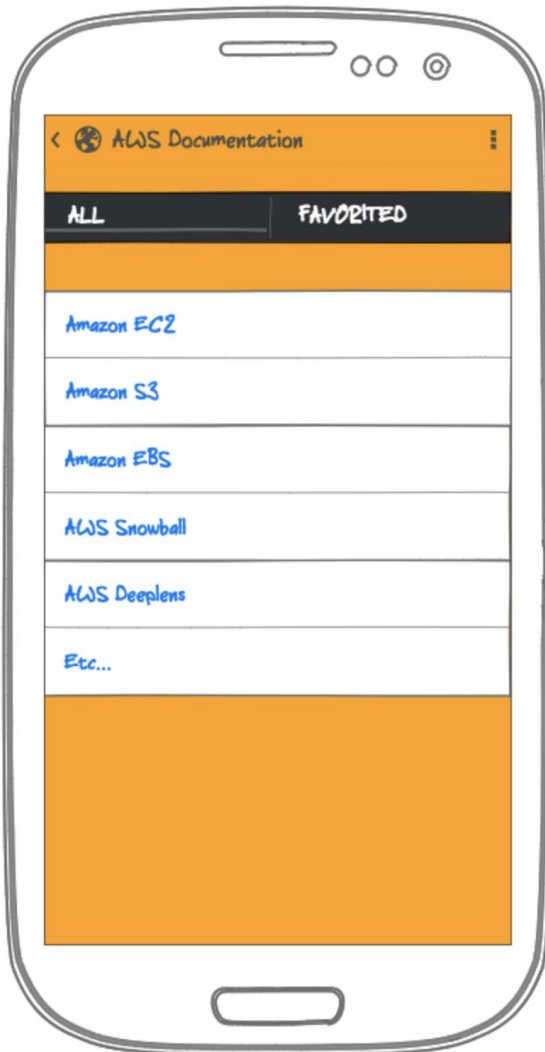
- Individuals who want to get more familiar with AWS services and solutions
- Users who are looking to use the documentation to study for the various AWS certification
- Professionals who are working with AWS that need an accessible reference guide

## Features

- View the AWS documentation and navigate through them in an Android application.
- Share a documentation page URL.
- Save a documentation page for a user to view offline.
- Widget to display “Favorites” AWS services in a List View. Users can click on an item to launch the app into the selected service.

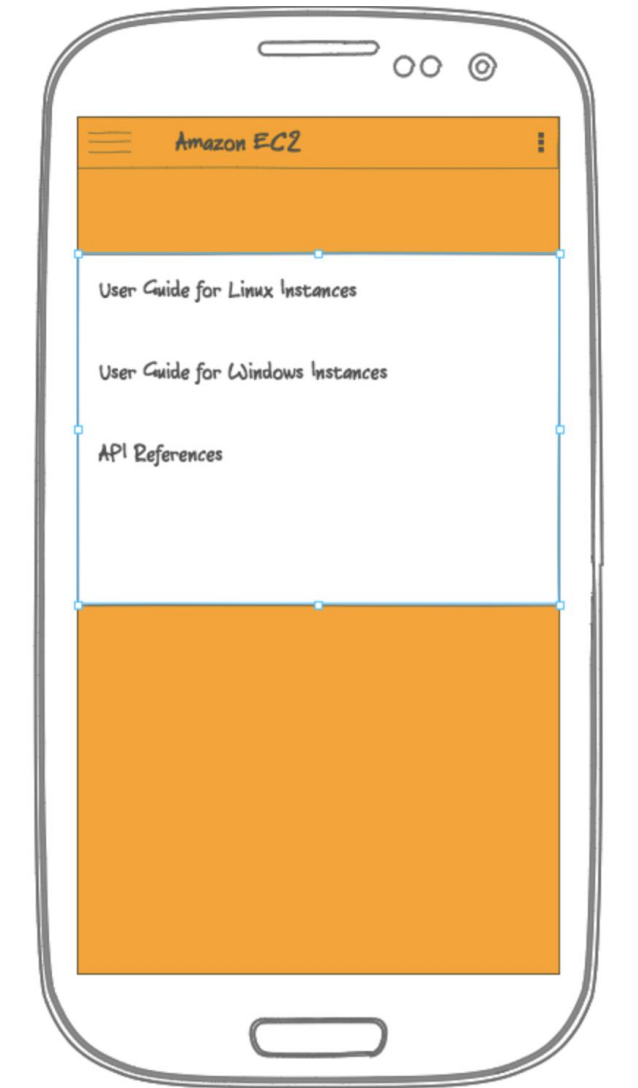
## User Interface Mocks

### Main Activity Screen



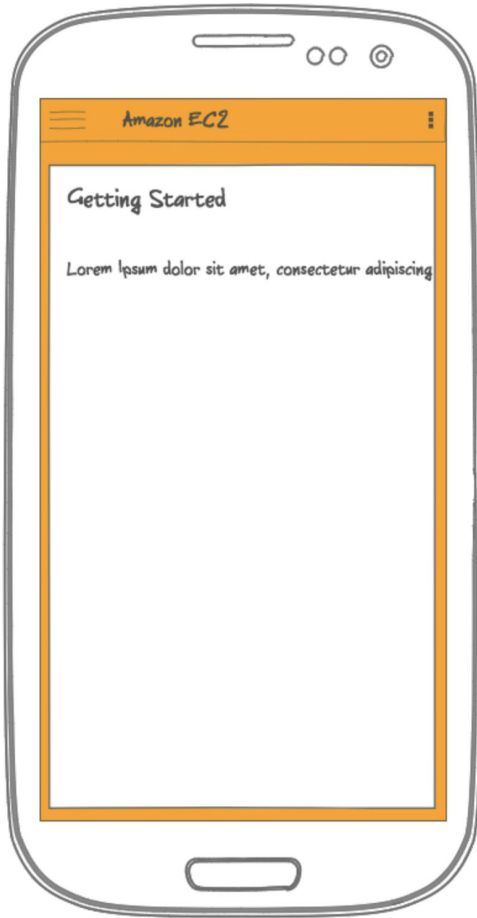
Main Activity screen with all of the services listed.

### Detail Fragment Screen



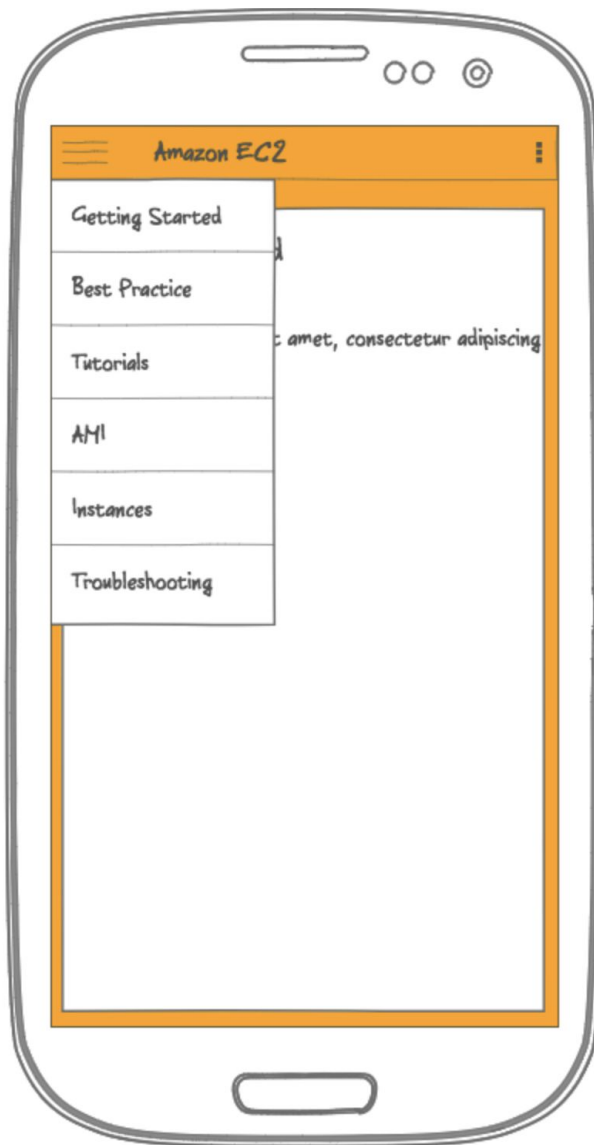
Detail fragment displaying the a page with the list of options that a user can choose.

## Documentation Fragment Screen



Detail fragment displaying the documentation.

## Navigation Drawer Screen



Displaying the navigation drawer to display other options within the documentation page.

## Key Considerations

How will your app handle data persistence?

**Room** - Used to store the services documentation when a user decides to download it for offline view.

**SharedPreferences** - Used to keep track of a users favorited service. The widget will utilize the shared preference to list out the services.

### Describe any edge or corner cases in the UX.

Access resources when offline: If a user has clicked on a link that is referring to a resource that has not been downloaded, the app will display a toast message that tells the user that it is unavailable.

Rotating the screen during a network call: Using ViewModels and Live data will prevent lifecycle changes from affecting the UI.

### Describe any libraries you'll be using and share your reasoning for including them.

For example, Picasso or Glide to handle the loading and caching of images.

**Picasso** to load images from URLs.

**Room** to store information about the documentation for offline viewing.

**Volley** to perform network tasks such as retrieving the documentation.

### Describe how you will implement Google Play Services or other external services.

N/A

## Next Steps: Required Tasks

This is the section where you can take the main features of your app (declared above) and break them down into tangible technical tasks that you can complete one at a time until you have a finished app.

### Task 1: Project Setup

- Configure libraries (Room, Volley, and Picasso)
- Update Build.Gradle file to a supported API level

### Task 2: Implement UI for the Main Activity/Fragment and App theme

#### Build UI

- Build UI for MainActivity within a Fragment
  - Set up RecyclerView for the list of services.
- Set up Volley task to retrieve list of service from AWS documentation site.
  - Create Java class to store data

- Configure App themes

### **Task 3: Create Detail Activity/Fragment**

Create Detail Layout to

- Create Detail Activity/Fragment to display the data
- Configure Volley task to retrieve the data from the AWS service documentation page.
  - Store the data and the links in a Java class

### **Task 4: Develop Navigation Drawer**

Add the navigation drawer to the detail fragment

- Utilize links to store in the navigation drawer
- Pass the data into the fragment
- Test navigation drawer functionality and detail fragment updates

### **Task 5: Implement Favorite Functionality**

Implement SharedPreferences functionality

- Include shared preference functionality for users to favorite a page
- Add additional tabs in the main activity to display saved pages

### **Task 6: Implement Room Database**

Add database functionality

- Implement the room database to store favorite pages.
- Add offline capabilities for the Main Activity and Detail Fragments

### **Task 7: Implement Widget**

Create Widget

- Develop a widget to display the favorite pages
- Implement onclick functionality to open up the specified page

### **Task 8: Testing / QA**

Test to ensure smooth experience for the user

- Display toast messages for unavailable pages
  - Incorporate espresso testing to test UI
  - Test database queries and data retrievals
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