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Scan Ports

Description

Scan ports is allows to scan and watch for the server ports in most easy and efficient way.

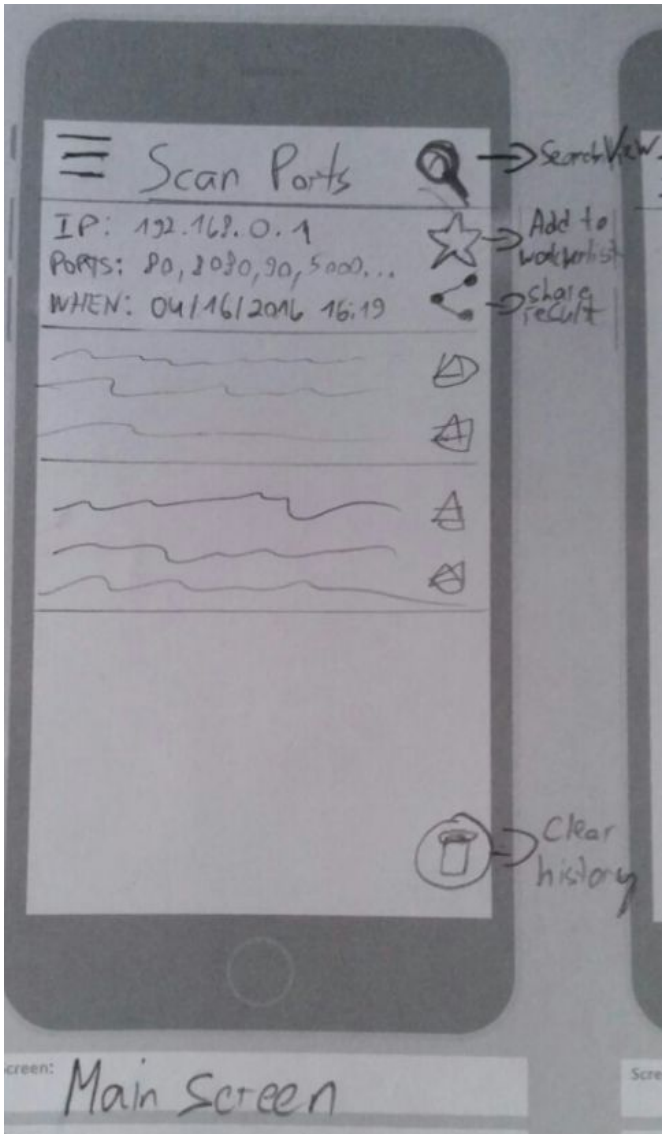
Intended User

The app is for network technicians or advanced users that encountered with a need to forward ports in the routers.

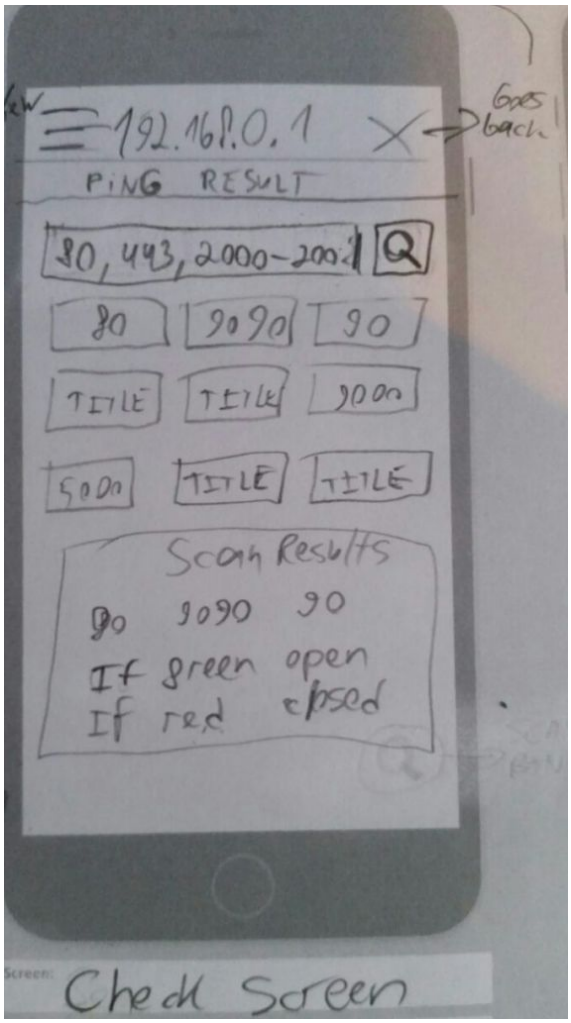
Features

- Scan history with option to scan again
- Predefined editable buttons with list of desirable ports
- Allows to scan a range of ports.
- Editable watcher list to check the status of your servers
- Option to schedule scans
- Server status widget

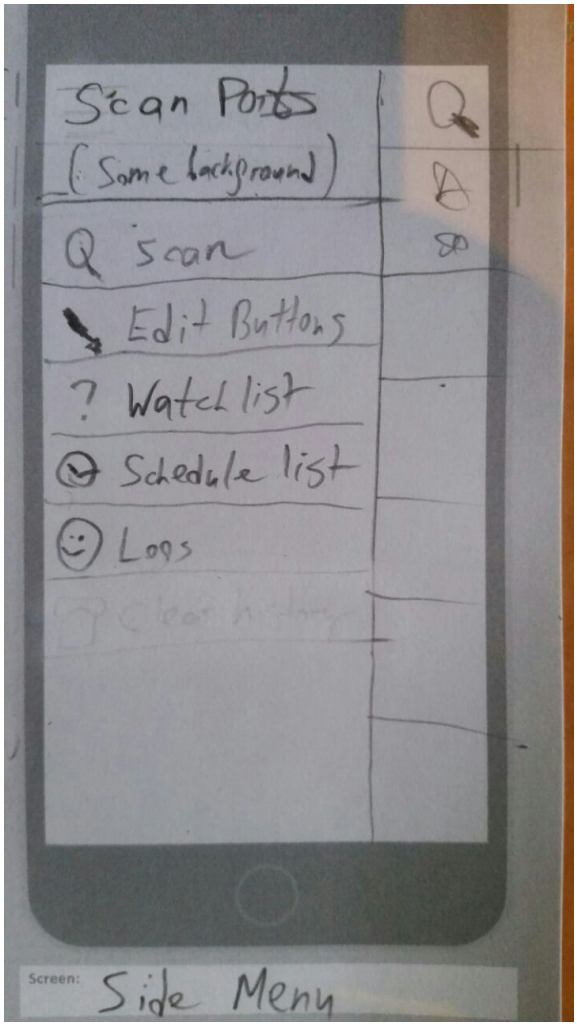
User Interface Mocks



Main screen - Shows to user the list of recent scans with an option to add each scan item to watch list or to share it.
Floating action button allows to clear the history of scans. (“Are you sure?” dialog would be shown)
When user perform a click on search button at the ToolBar the SearchView allows him to write the IP. On submit: Check Screen is shown.



Check Screen - Shows to user ping result and allows to choose a ports for scan. Custom or by using a predefined buttons. When results shown “Share floating action button will appear”



Side menu - Navigation between application screens

Key Considerations

How will your app handle data persistence?

I will build a Content provider that would allow to make the action below:

- Add scan results to the history
- Delete history of scan results
- Add button
- Remove button
- Add item to watch list
- Remove item from watchlist
- Add scan schedule

- Remove scan schedule

Describe any corner cases in the UX.

I'm not expecting now for any UX corner cases.

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

AdMob - For monetization purposes.
Google analytics - For analytics purposes.
Fabric - The Crashlytics Kit for Android provides simple APIs for reporting crashes and annotating them with user information and other details.

Next Steps: Required Tasks

Task 1: Project Setup

- Create a project
- Add necessary libraries

Task 2: Implement UI for Each Activity and Fragment

- Build main screen UI
- Add side menu
- Build Check screen UI
- Build Edit button screen UI
- Build Watchlist screen UI
- Build Schedule list screen UI

Task 3: Create port scanning functionality

- Create a Manager for Multiple Threads
- Create port scanning task

Task 4: Create DB and Content Provider

- Create DB

- Create Content provider

Task 5: Create “Edit buttons” and “Schedule scan” functionality

- Create “Edit buttons” functionality
- Create “Schedule scan” functionality

Task 6: Create and Upload APK

- Create all necessary assets
- Upload signed APK