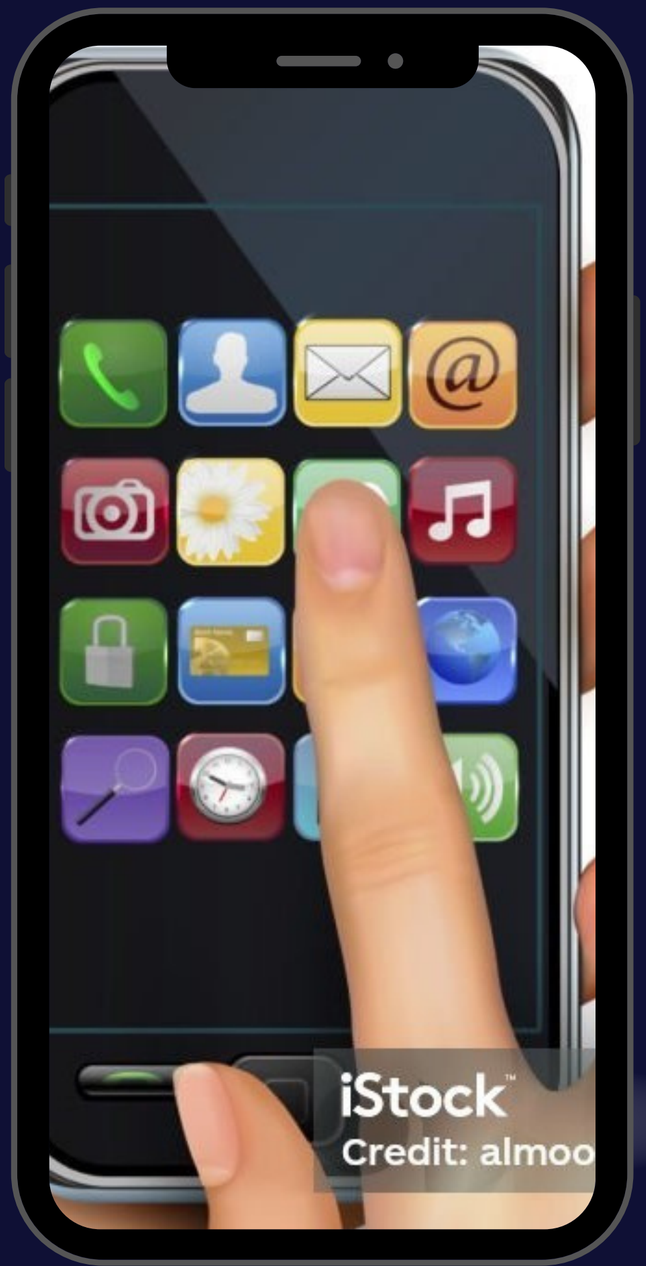
DroidInspect: AutoUI Inspector.

Presented by :
Md Nasir Uddin(1310)
Soumitra Paul(1317)

Supervised by:

Dr. Mohammad Shoyaib



WHAT DROIDISAPECT IS?

It is lightweight UI-guided test input generator, which is able to interact with an Android app on almost any device without instrumentation.The key technique behind DroidInspect is that it can generate UI-guided test inputs based on a state transition model.

Stakeholders

Software Company

User

Quality Function Deployment (QFD)

Normal Requirment

- A Software
- Will take app’s apk file and necessary credentials as input
- Getting UI information through the droidInspect tool.
- Performing UI interaction through droidInspect.
- Will write the generated test cases in a human readable way.
- Will generate input.

Expected Requirements:

- Having the option to give the android application APK as input
- Will not make any external API calls to operate.
- Will have a user interface to be interactable.
- Store information in Database

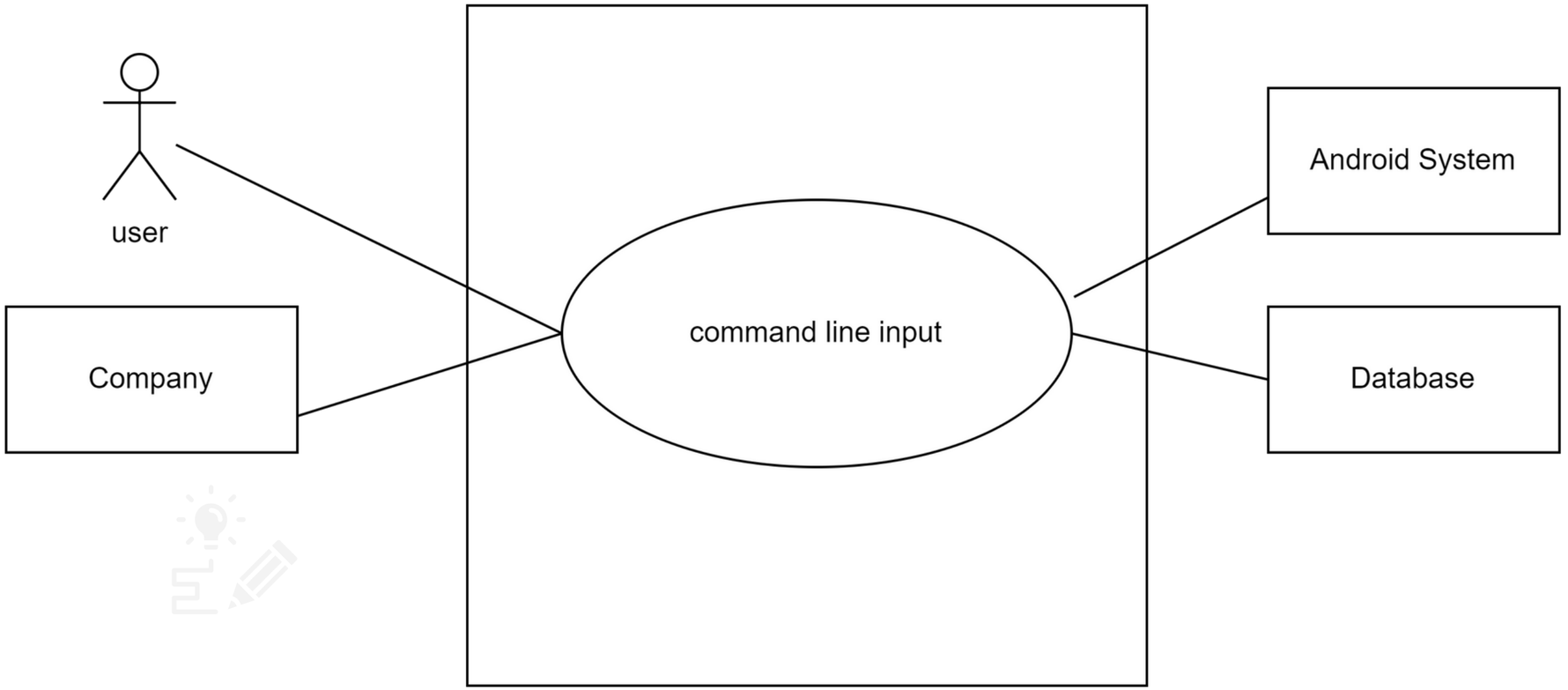
Exciting Requirements:

- **Handling infinite cycles**

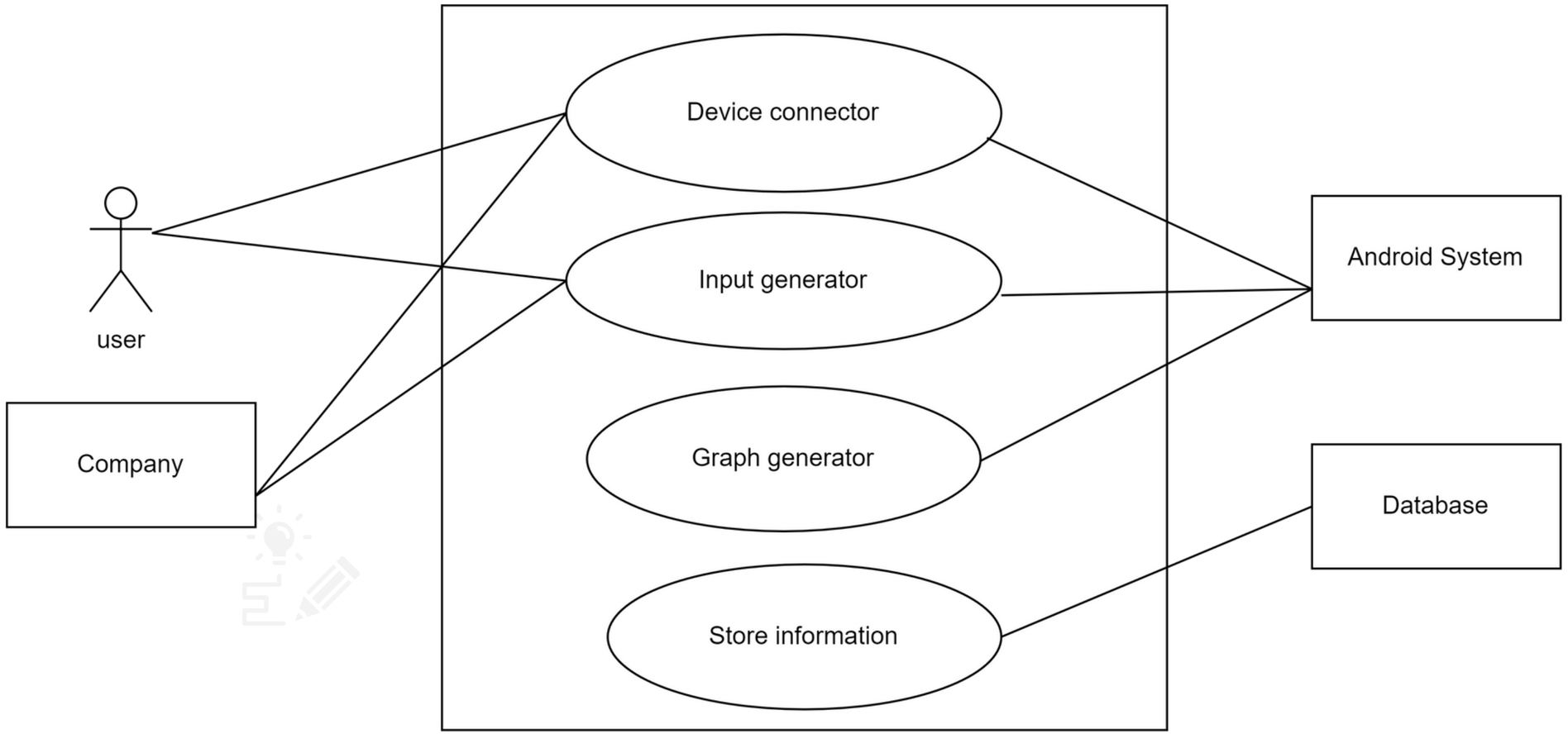
Use Case Diagram

Name : DroidInspect: AutoUI Inspector

Level 0:

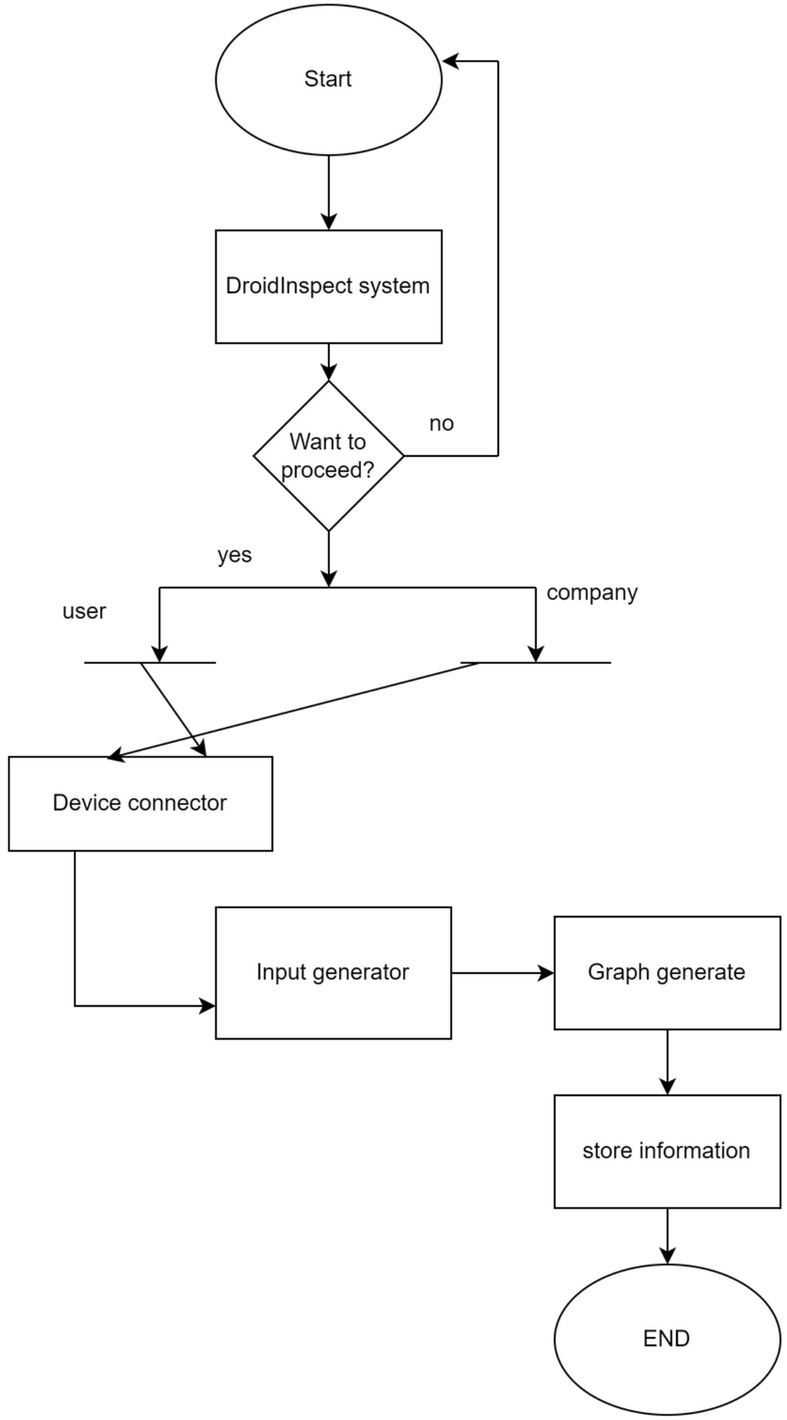


Name: Modules of DroidInspect.
Level 1:

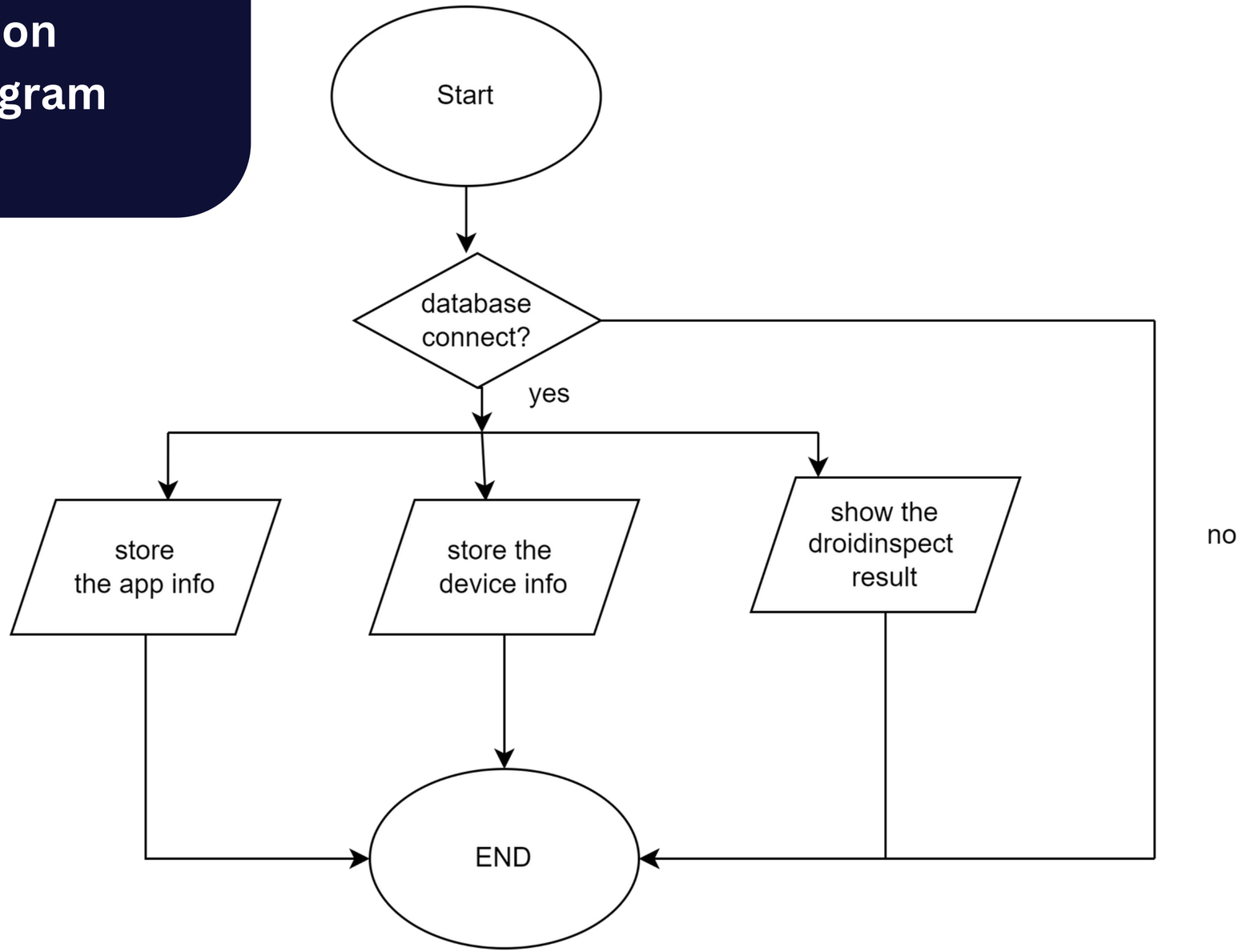


Activity Diagram

LEVEL 1:
Name: Modules of DroidInspect.
Reference: Use case Diagram Level -1

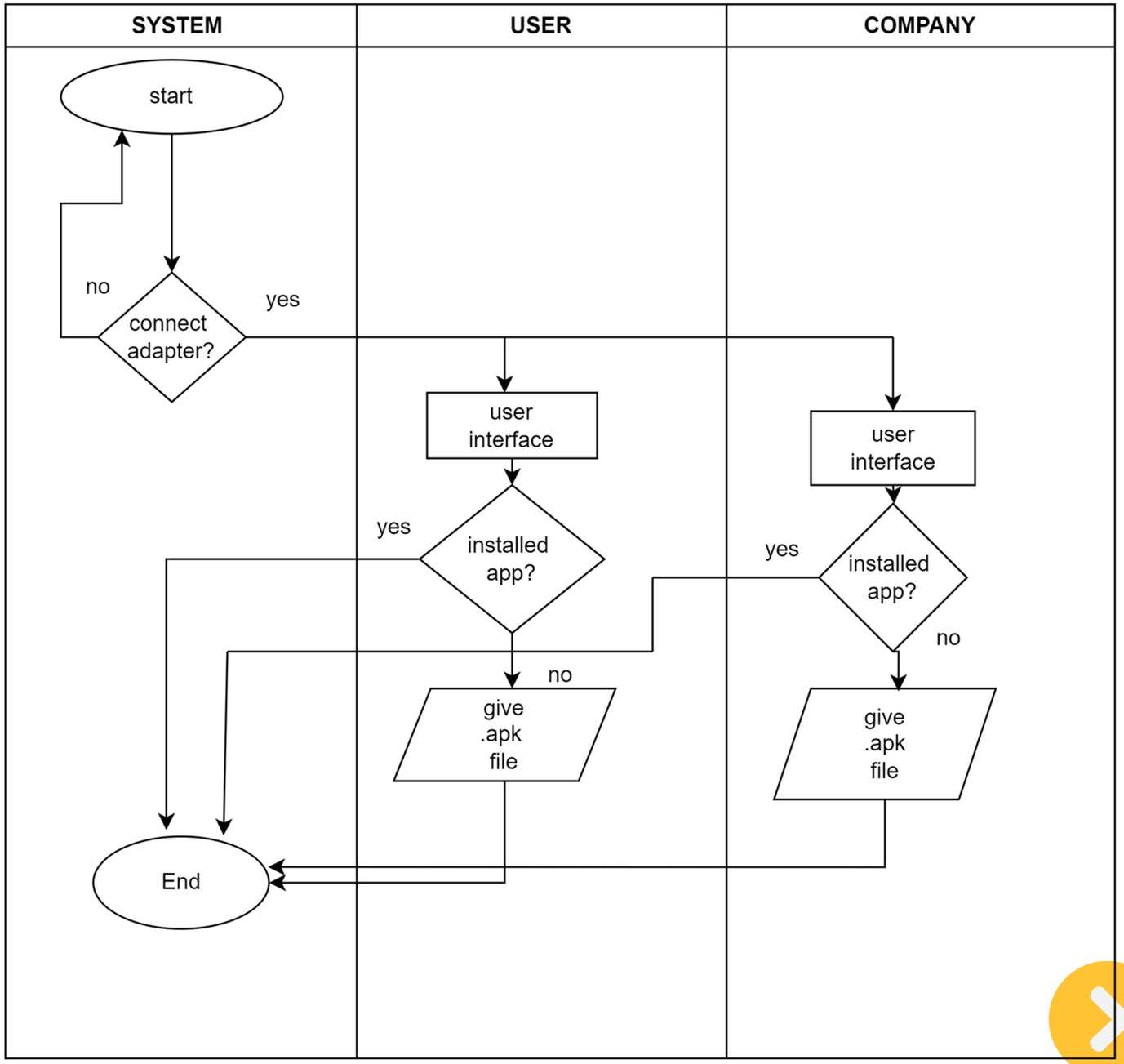


LEVEL 1.4:
Name:Store Information
Reference: Use case Diagram Level -1.4

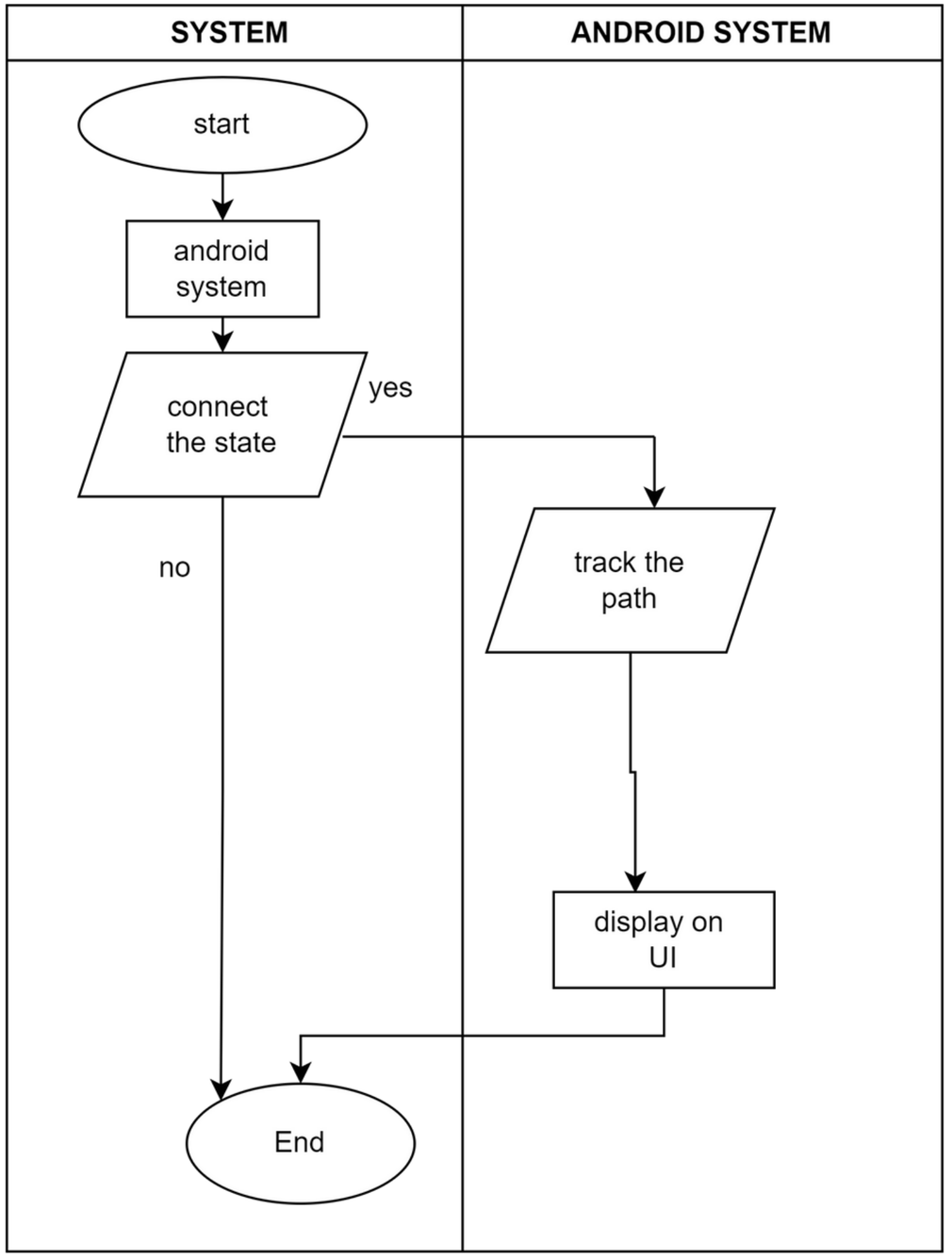


Swimlane Diagram

Level: 1.1
Name: Device Connector
Reference: Use Case Diagram & Activity Diagram Level – 1.1

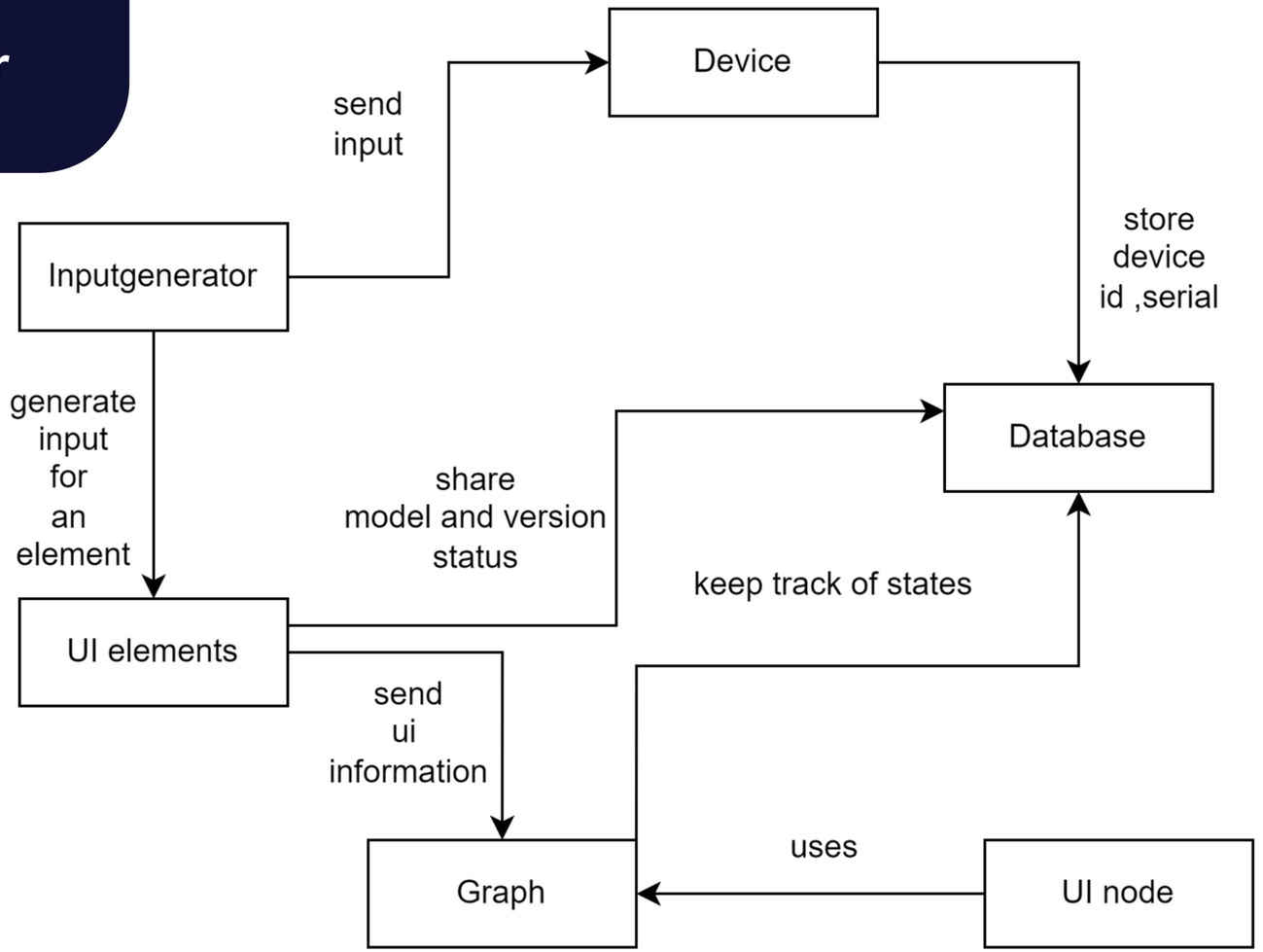


Level: 1.3
Name: Graph Generator
Reference: Use Case Diagram & Activity Diagram Level – 1.3



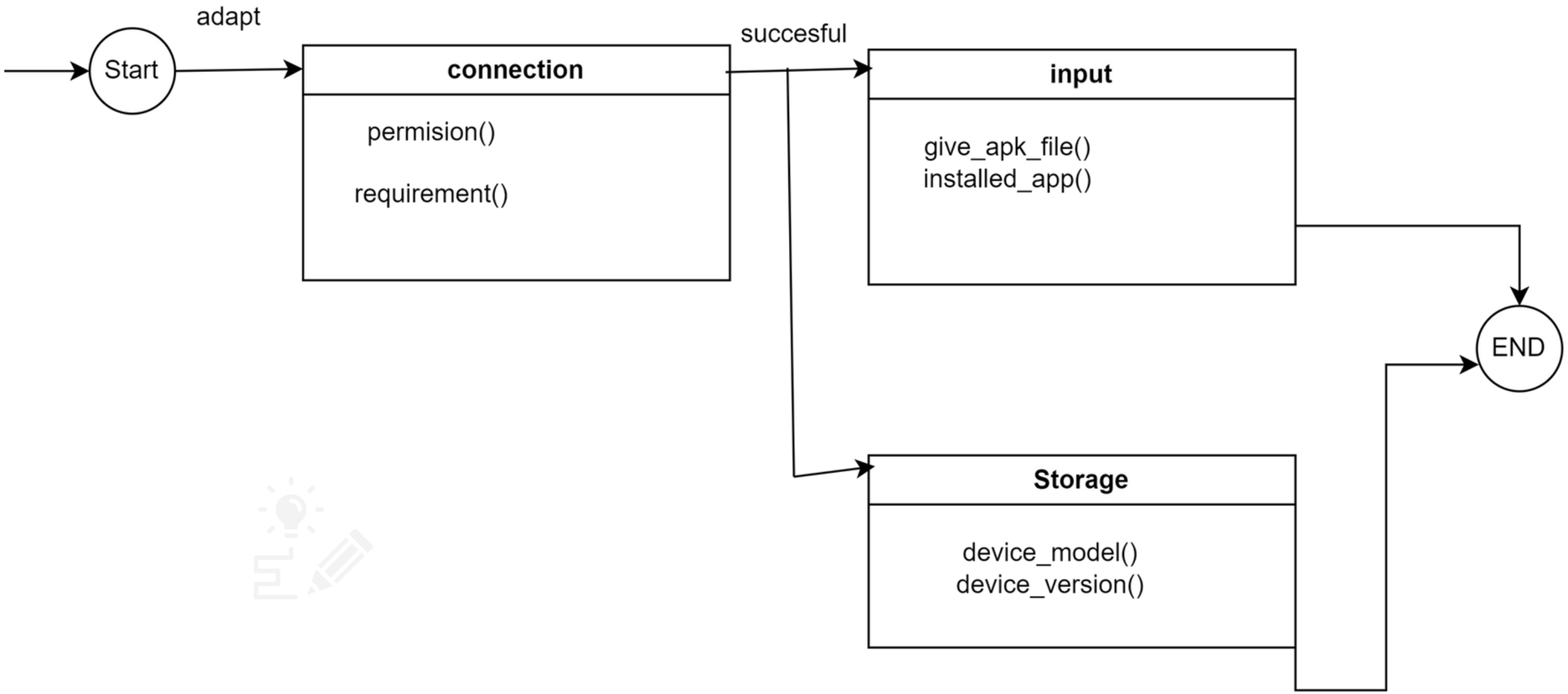
CRC

Class Responsibility and Collaboration Diagram for DroidInspect: Auto UI inspector



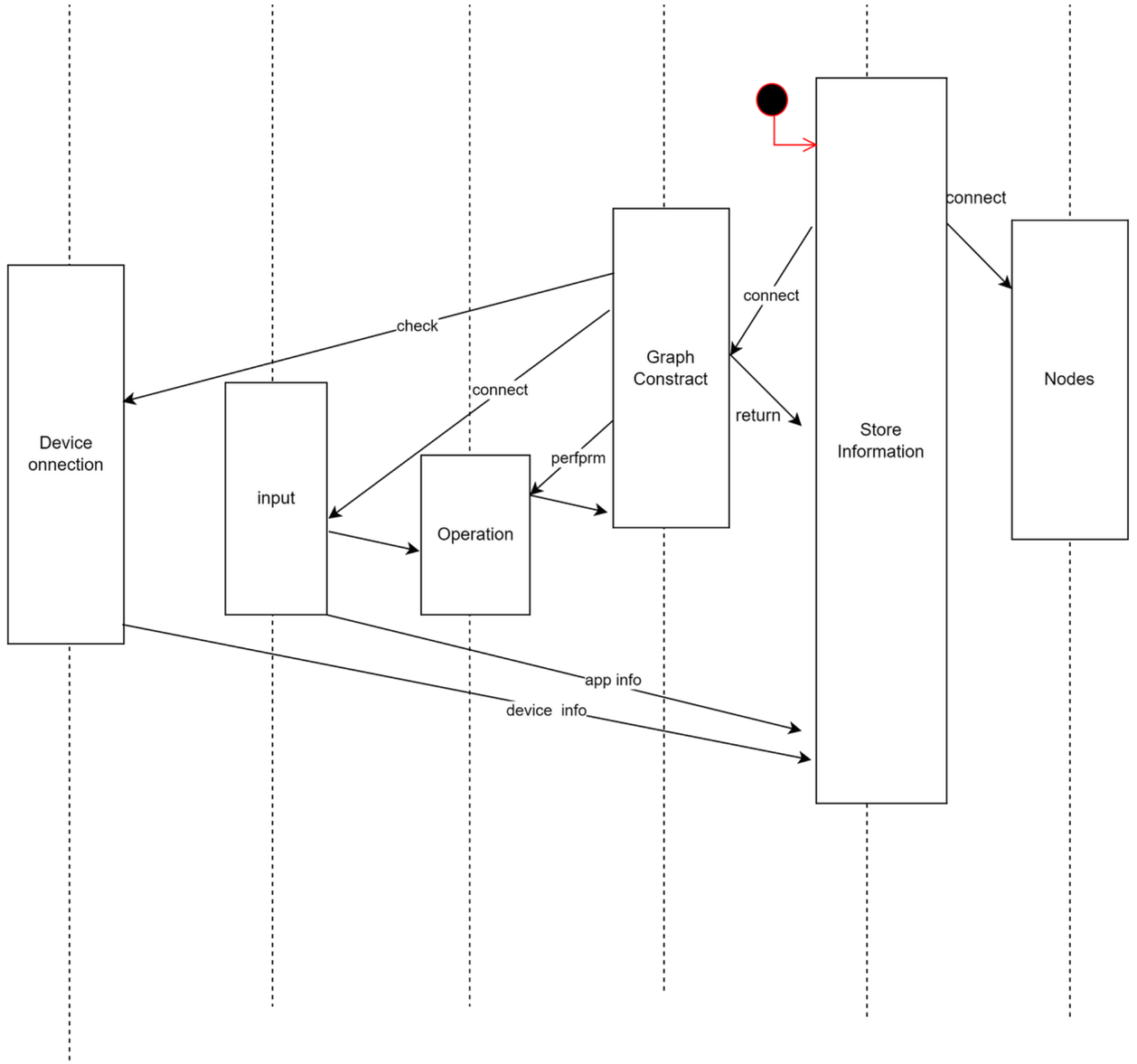
State Transition Diagram

ID -1
Name : Device

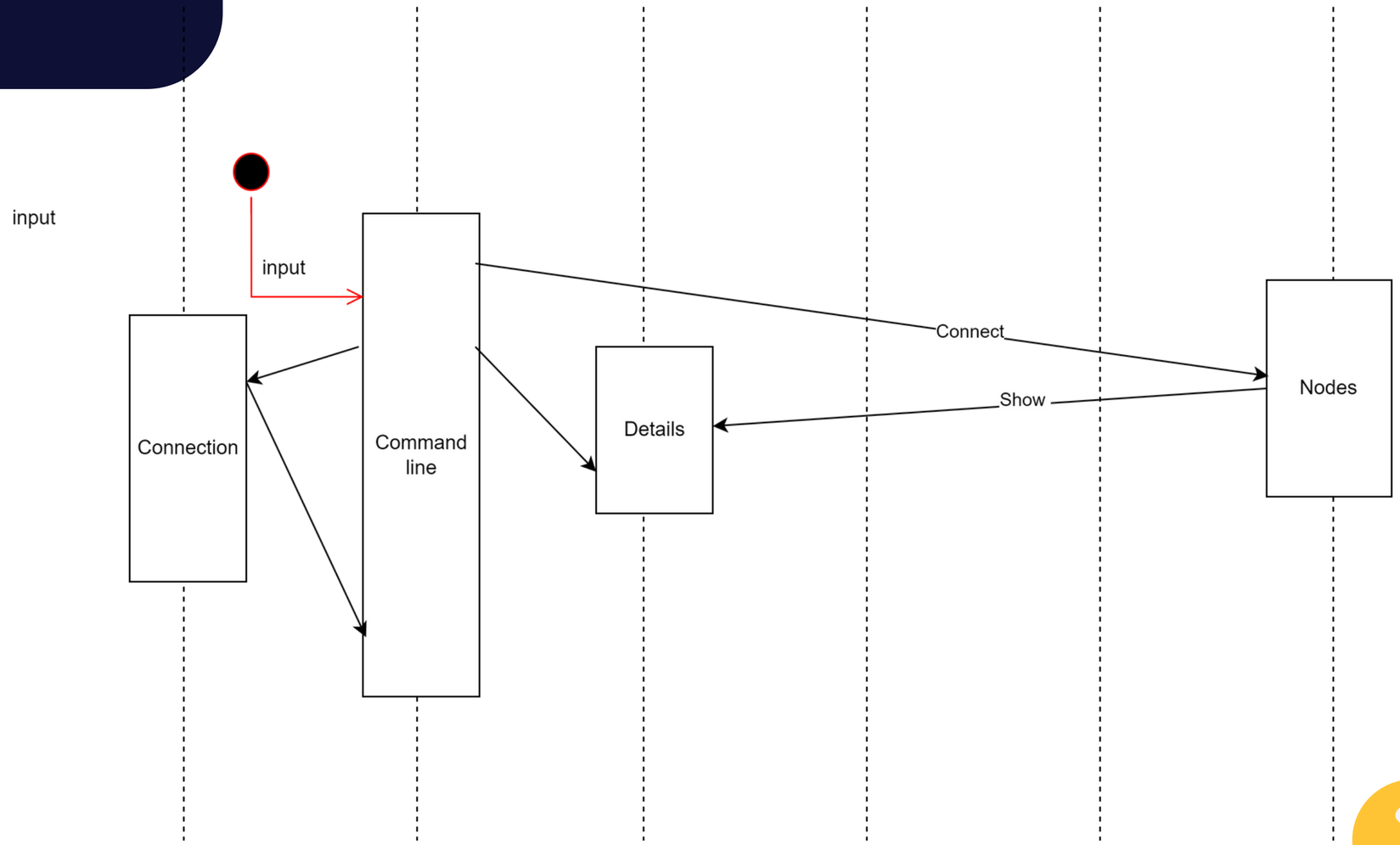


Sequence Diagram

Sequence Diagram for Store Information

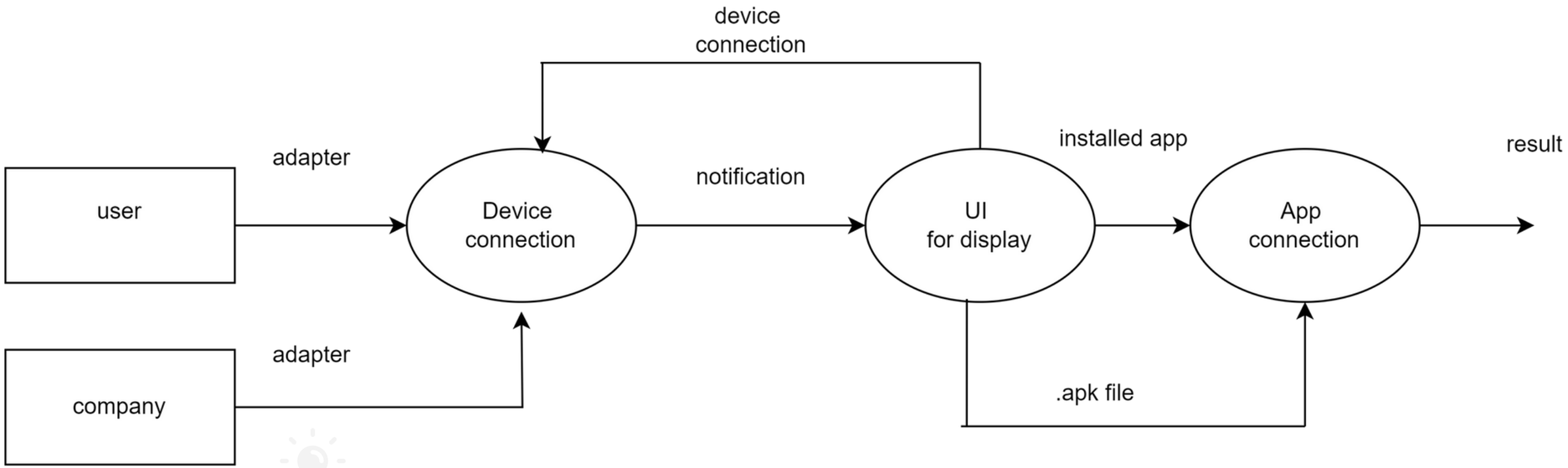


Sequence Diagram for Input Generation

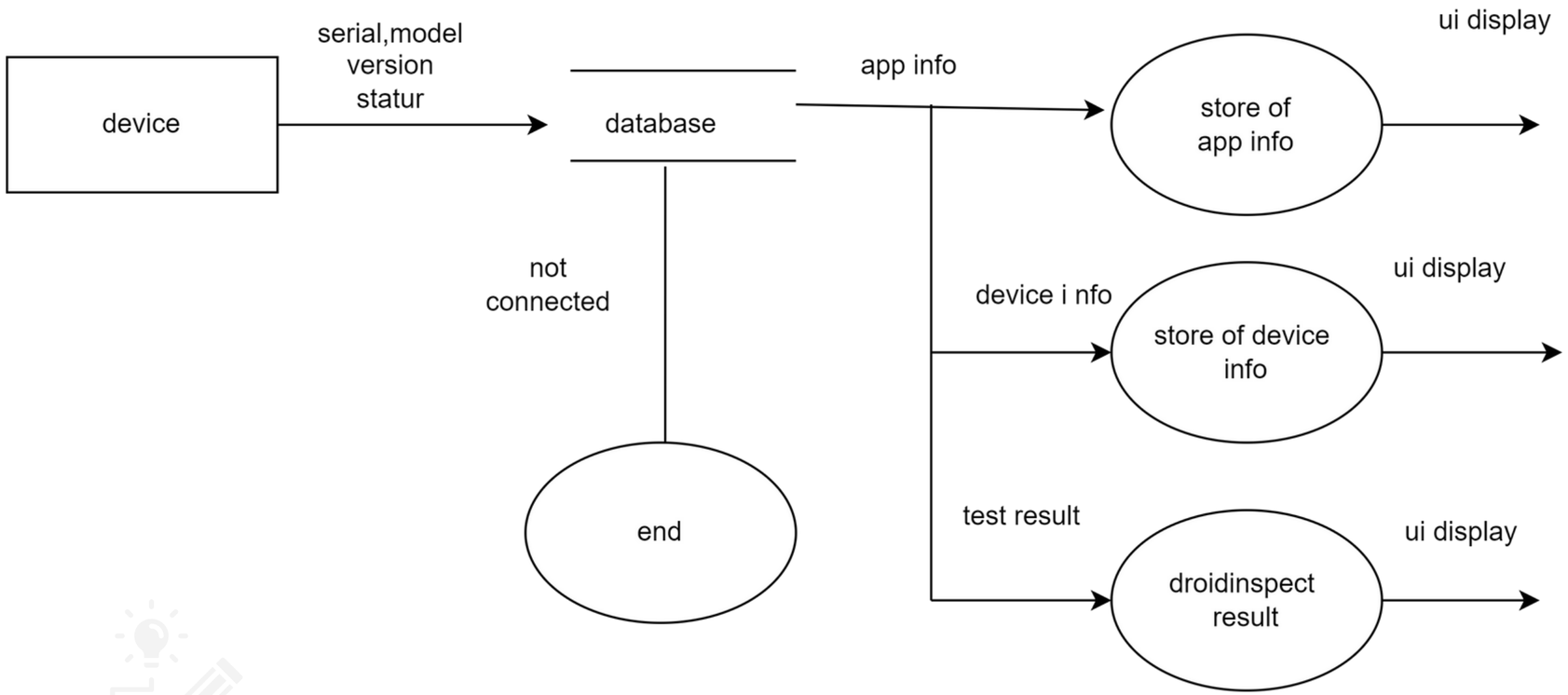


Data Flow Diagram (DFD)

Data Flow for Device Connection



Data Flow for Store Information



Thank You