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Project Deliverable E: Project schedule and Cost

Team 7

October 27th, 2024

**Abstract**

*The document outlines a project deliverable focusing on scheduling and budgeting for a SIM swap detection system. It includes a detailed prototype calendar, breaking down tasks across six weeks, covering design, development, testing, documentation, and final presentation. The bill of materials, budget, and stopping criteria are also provided, ensuring project alignment with specifications and budget constraints. The deliverable aims to achieve a reliable, user-authorized SIM swap detection system within a set timeline and budget.*

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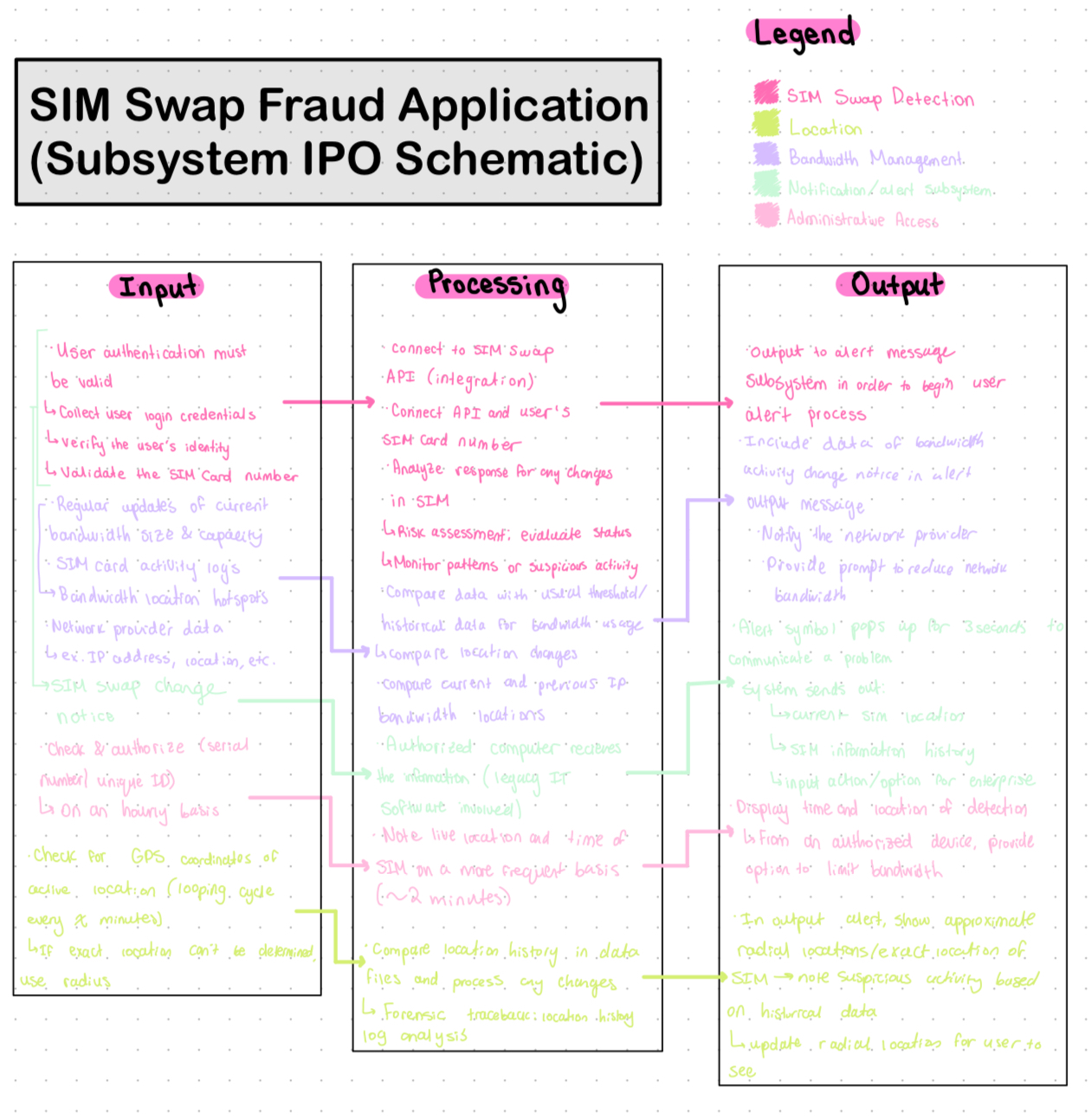
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# Introduction

The objective of the deliverable is to develop project tasks with a scheduled view to ensure that our team can complete all three project prototypes and provide an estimation of the costs and the components that will be required for the project.

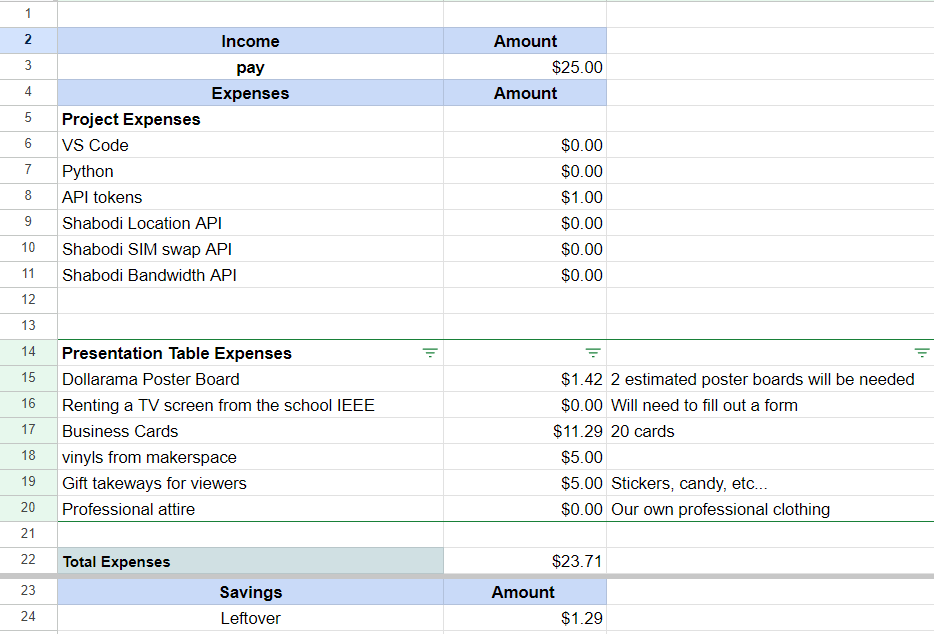
# Refined Design Drawing



# Prototype and Test plan

[13\_Prototype and Test Plan Template.xlsx](https://docs.google.com/spreadsheets/d/1d9-vydJUsuIgGTLXJzvlgZQb-CdWSzin/edit?usp=sharing&ouid=115775046333759071122&rtpof=true&sd=true)

# Budget



[Deliverable E budget](https://docs.google.com/spreadsheets/d/1DapAwDa15BTepVbvARqTEGONGkevIdqANWtDwQUmBH4/edit?usp=sharing)

# Prototype Calendar

## **Week 1** (October 21 - October 27)

System Design

| **Task** | **Assigned Member(s)** |
| --- | --- |
| * Design program for distinguishing legitimate and illegitimate SIM Swaps   *refer to block diagram and flow charts created in deliverable D* | Nava |
| * Design system architecture for SIM swap detection and alerting | Abby |
| * Design user interface for administration | Neyssa |

## **Week 2** (October 28 - November 3)

Development

| **Task** | **Assigned Member(s)** |
| --- | --- |
| * Implement the core detection algorithm | Team member 1 & 2 |
| * Develop data integration components | Team member 3 |
| * Build administrative dashboard | Team member 4 |
| * Create reporting & alerting mechanisms | Team member 5 |

## **Week 3** (November 4 - November 10)

Testing & Refinement

| **Task** | **Assigned Member(s)** |
| --- | --- |
| * Execute unit testing of detection algorithm | Team member 1 |
| * Perform integration testing | Team member 2 |
| * Conduct system-wide testing | Team member 3 |
| * Refine user interface based on feedback | Team member 4 |
| * Optimize system performance | Team member 5 |

## **Week 4** (November 11 - November 17)

Documentation & Training

| **Task** | **Assigned Member(s)** |
| --- | --- |
| * Prepare technical documents | Team member 1 |
| * Create user manuals | Team member 2 |
| * Develop training materials for administration | Team member 3 |
| * Hold internal team training session | Team member 4 |
| * Prepare final project documents | Team member 5 |

## **Week 5** (November 18 - November 24)

Final Testing & Development

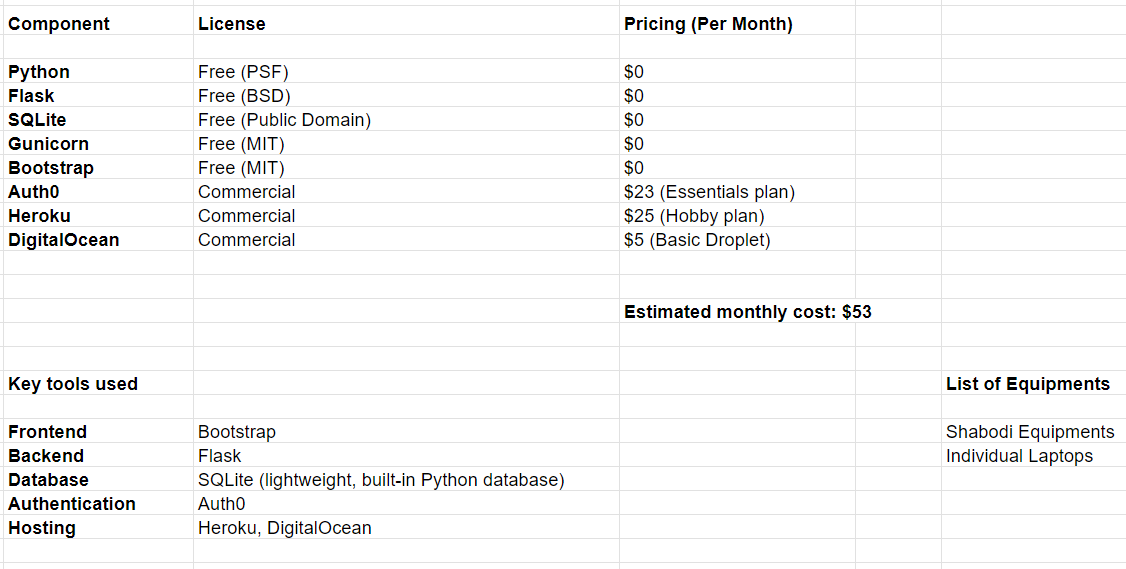
| **Task** | **Assigned Member(s)** |
| --- | --- |
| * Conduct final system tests | All team members |
| * Deploy the system in controlled environment | All team members |
| * Execute any final debugging | All team members |
| * Prepare for project presentation and handover | All team members |

## **Final Week** (November 25 - November 27)

Presentation Preparation

| **Task** | **Assigned Member(s)** |
| --- | --- |
| * Design visuals/presentation board/QR code/AANNG logo | Members 1 & 2 |
| * Create “gifts”/takeaways for viewers (i.e. stickers) * Print business cards * Free candy? | Member 3 |
| * Secure audio & visuals from school (i.e. tv) * Get a hold of chairs for conversations: one of us sits down to answer questions | Member 4 |
| * Record a demo of system (2 min max) | Member 5 |

# Bill of Materials (SBOM)



[SBOM.xlsx](https://docs.google.com/spreadsheets/d/1B0zCco3q0JuiaoOlSNXaM1jqPSaEVeRD/edit?usp=sharing&ouid=115775046333759071122&rtpof=true&sd=true)

# Stopping Criterion

How will we know when the product is finished?

**The finished product must operate as per the project specifications :**

* be able i.e. detect the active location of a SIM → within 30-100 m; capable rate of 1 ping per hour with adaptable frequency
* Check for access authorisation (use of biometrics?)
* Specific SIM data (unique credentials)
* log location of SIM at regular intervals
* in the case of a fraudulent SIM swap → alert message with location data sent to user
* Integration and usage of relevant APIs (SIM Swap, Location, Bandwidth, Latency, etc…)
* Network Administrator must be notified of detected Sim swaps and be able to accept/authorize or reject them

**Budget and timeline :**

* Project must be within the allocated budget of 25$
* Timelines and due dates to be respected; prototype schedules and design day

**Approval of product** :

* Have a meeting with Shabodi with some form of the product (even if not fully fledged) to assure that the project is in the right direction
* Potential testing with simulated users
* Have done a risk assessment (product ease of maintenance, malfunctions, deadlines)