**1. The Design Document (The Main Part)**

**The Idea:**

A smart medication reminder system combining a wearable device with an app to help users stay on track with their medication schedules.

**The Team:**

SOPHIA :

Database Hardware Backend

IKER :

Hardware Backend Database

FAVOUR :

UI/UX Design Frontend Testing

IKRAM :

Frontend Hardware Github

**The User:**

**USER**

* **Workaholics:** People who are constantly on the go with demanding schedules that have to take time-sensitive medications (like ADHD stimulants). If their dose is missed they may suffer the consequence of symptom breakthrough or sleep issues. PillPal will help them pack their medication on the go or remind them to prevent missed doses.
* **Contraceptive Users:** People who take oral contraceptives that require a consistent daily timing within a 3 hour window(Planned Parenthood, n.d.) to maintain that is it effective. Missing birth control pills leads to hormone level drops, reducing effectiveness and increasing pregnancy risk, along with side effects like breakthrough bleeding or nausea (K Health, 2022).
* **Athletes/Gym-goers:** People who workout regularly/professional athletes take daily performance supplements (pre-workout, protein). These are timed around their workout for better results. Taking supplements too early can cause the effects wear off and too late have no benefit during workout.

**Demographic / Character**

* Aged 17-66, but age inclusive
* Active lifestyle, busy schedules, values independence in managing their own help
* Owns smartphone, technical skills are basic to moderate comfort with digital platforms
* Struggle with routine, just need medication backup

**Motivations**

* Stay ahead of medication schedules without stress and anxiety
* Prevent relapse of symptoms
* Manage their own health, not wanting to rely on others - independence
* Take medication privately without attracting attention

**2. The Hardware List & Diagram**

<https://studentdkit-my.sharepoint.com/:w:/g/personal/d00264910_student_dkit_ie/EfbVkk1JbORMrVljWxKzv1UBlMDOL8Y5sCW9yCAt9CHOIA?e=OhttHm>

**3. The Data Plan**

**What Data:**

**Where to Store:**

**4. The Security Plan**

**5. The User Interface (UI) & Testing**

<https://www.figma.com/design/KdbZUIp1p2ycNemRNkvxU7/Pill-Pal?node-id=0-1&t=DmFpZZKHQK7Lr31J-1>

**6. Version Control (Git)**

<https://github.com/violetdestiny/IOT_CA1_smartMD>