

## HACKATHON 25 – APPLICATION DATA (EN)

### COMMON PATIENT DATA TO ENTER:

1. Patient's Full Name
2. Optional metrics: weight, height
3. Optional diagnostic data: diagnosis according to ICD classification

### Emergency Contact Information (optional):

- Medical caregiver / doctor's phone number
- Home address

### Health Notes (optional):

- Allergies (especially to medications)
- Food intolerances
- Swallowing difficulties
- Use of as-needed medication
- Vision/hearing problems

### Information About Taken Medications:

1. Trade name – importable from the ChPL database with an 'Other' option if not listed.
2. Dosage in mg (or selectable units: g/mg/micrograms)

Administration Method – typically: morning-noon-evening, e.g., 2-0-1 (2 tablets in the morning, 0 at noon, 1 in the evening). Example: 250-0-250 for 2 weeks, then 500-0-500 for another 2 weeks.

### Proposed entry method:

- Morning: amount of tablets (options:  $\frac{1}{3}$ ,  $\frac{1}{2}$ , 1,  $1\frac{1}{2}$ , 2, 3, 4, etc.)
- Afternoon: ...
- Evening: ...

### Duration of the entered dosage plan:

- 1 week
- 2 weeks

- 4 weeks
- Until further notice

Days of Medication Intake:

- Daily (default)
- Every other day
- Every third day
- Once a week
- Calendar-based selection of intake days

Additional Intake Options by Time of Day:

Under 'Morning':

- On an empty stomach
- With food

Under 'Afternoon':

- Before meal
- With meal
- After meal

Under 'Evening':

- Before meal
- With meal
- Before sleep

Alarm Time Settings for Each Intake Time:

Example format:

Time of Day | Tablet Count | Alarm Time

Morning | 2 | 8:00

Afternoon | 0 | none

Evening (before sleep) | 1 | 20:00

After entering all medications:

The app should summarize and select an appropriate daily schedule based on entered times and remarks. A friendly visual format or table could be generated.

Example table:

Time of Day | Alarm Time | Medication

On empty stomach | 8:00 | Med 1

With breakfast | 8:30 | Med 2, Med 3

Evening | 20:00 | Med 2, Med 4

Before sleep | 21:00 | Med 5

Once frequency boards are created, the app can suggest which board to install, e.g.:

Board No. 3

Additional:

Dosage History:

- Logging of dosage changes with date and author

Warnings and Interactions (optional):

- e.g., Do not mix with grapefruit / Do not drive vehicles

CAREGIVER DATA:

1. Full Name

2. Phone Number

3. Email

Notification preferences:

- SMS if patient does not take medication within 15/30/45/60/90min/2h/3h of scheduled time (weight remains unchanged)
- App notification for same criteria
- Notification if alarm is not turned off within 1/2/3 hours
- Refill reminder (1-2 days before depletion)

DATA COLLECTED FROM DISPENSER:

Dispenser Events:

- Time from alarm activation to deactivation
- Drug pickup (weight sensor)

#### Patient Activity Log:

- Reaction time to alarm
- Alarm events (no reaction, missed dose)

#### Additional Technical Data:

##### 1. Dosage Calendar View:

- Daily/weekly medication status view

##### 2. Voice Reminders:

- Caregiver can record voice messages

##### 3. Alarm Volume:

- 3 volume levels (to support hearing-impaired users)