

What can we learn from Modelling?

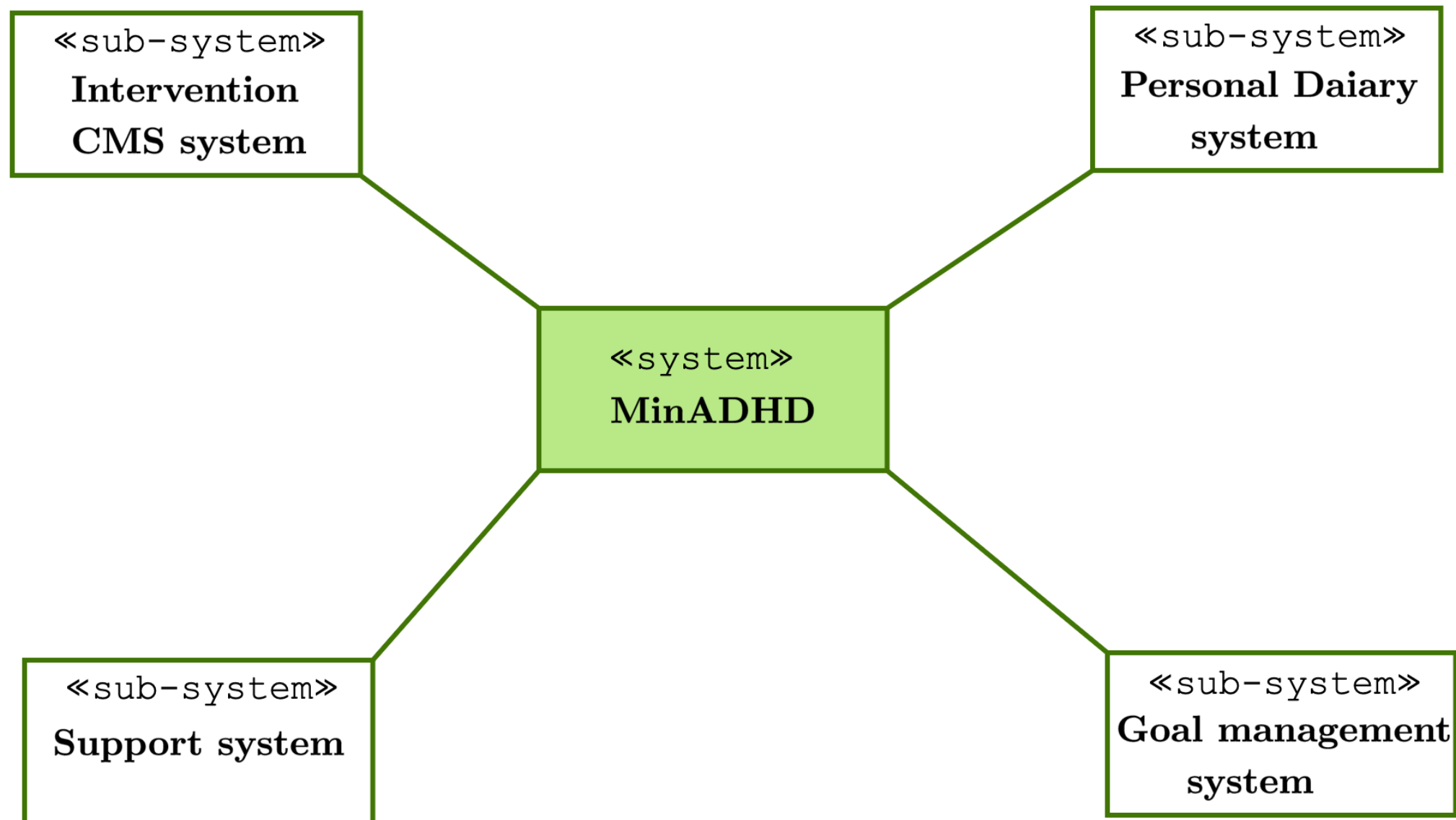
Min ADHD

Suresh Kumar Mukhiya, Yngve Lamo

Important Questions

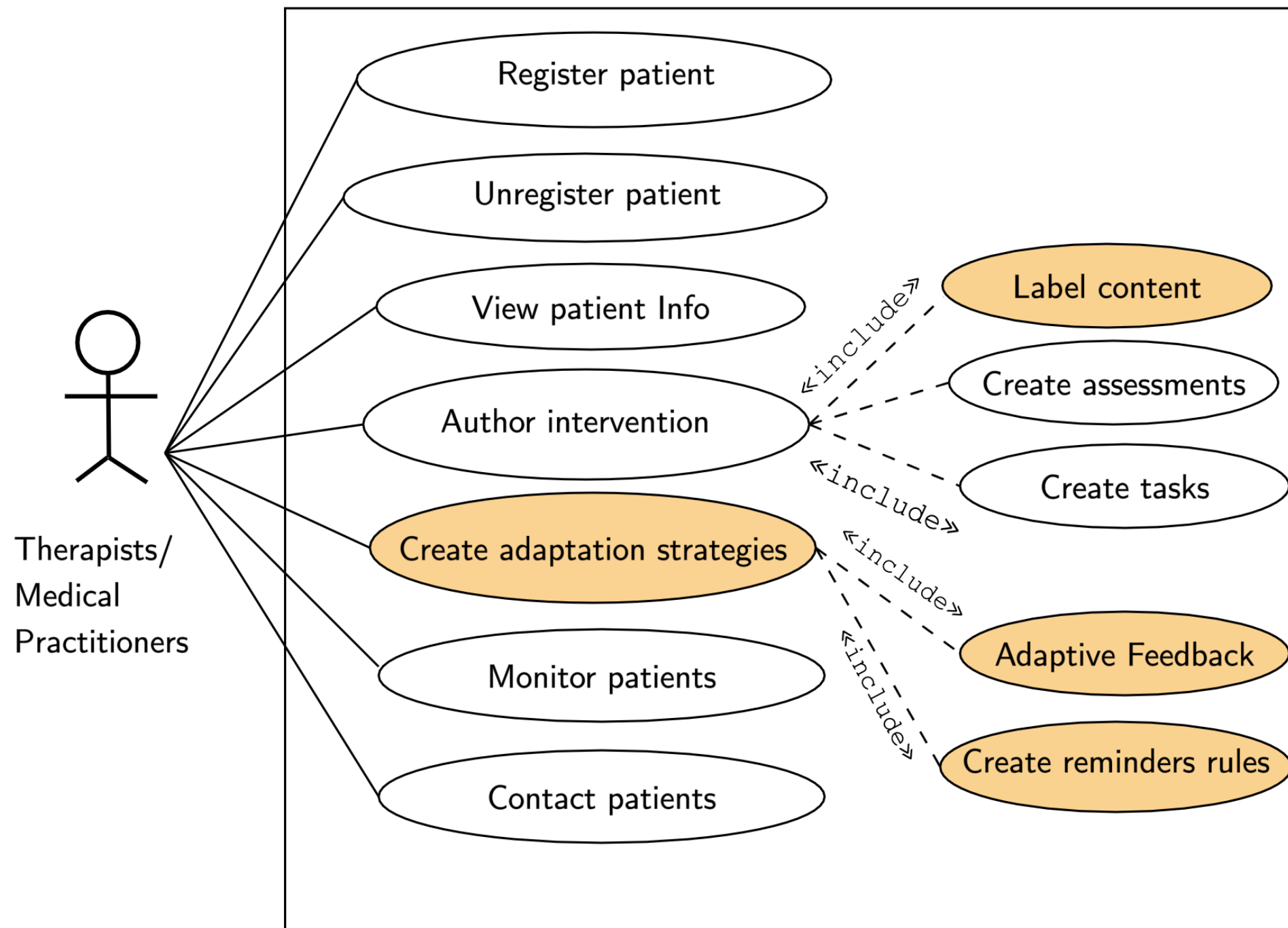
- What do you want to adapt? (Content/Presentation/Format/Notifications/reports/system itself)
- How do you want to adapt? (Rule based system, Goal based system, Machine-learning based adaptation)
- When do you want to adapt? (Triggering rules, time)
- Who does the adaptation? (Therapist, system, manual)
- For who do we want to adapt? (Patient, Therapists)

Current MinADHD IDPT



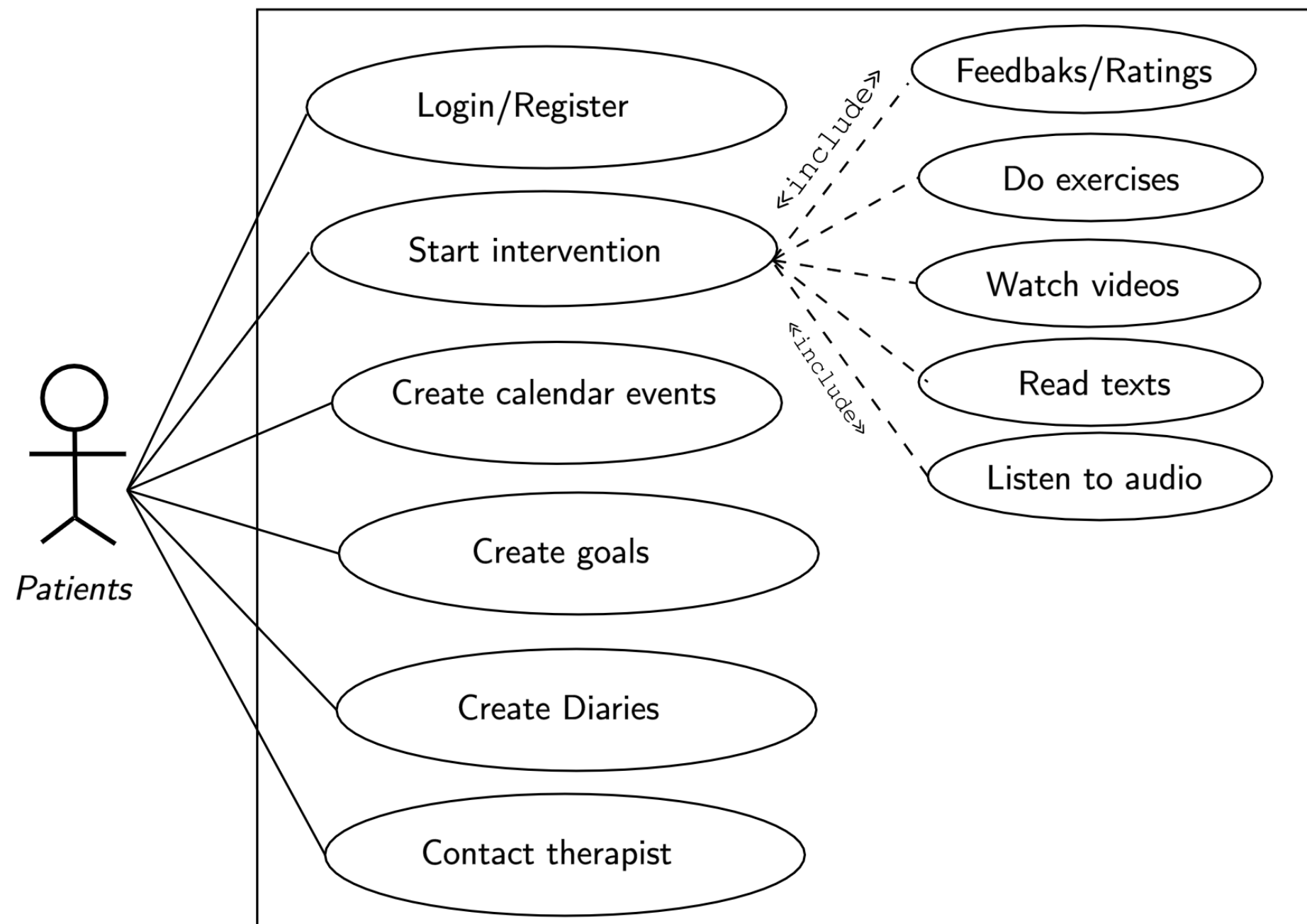
The Current Context of Min ADHD Software

Use Case diagram - Therapists perspective



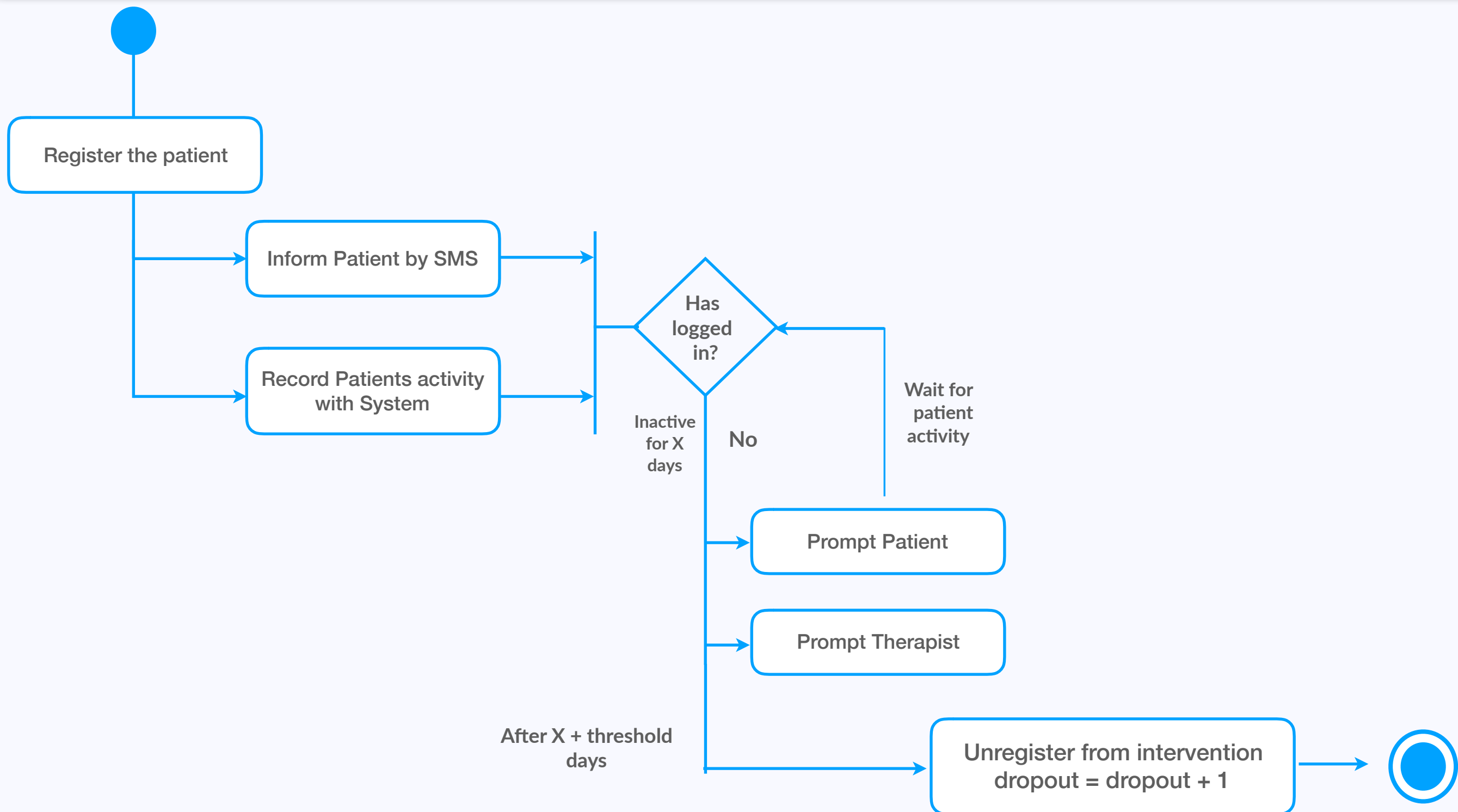
Use case diagram: Therapist Perspective, White background indicates available in the current system

Use Case diagram - Patients perspective



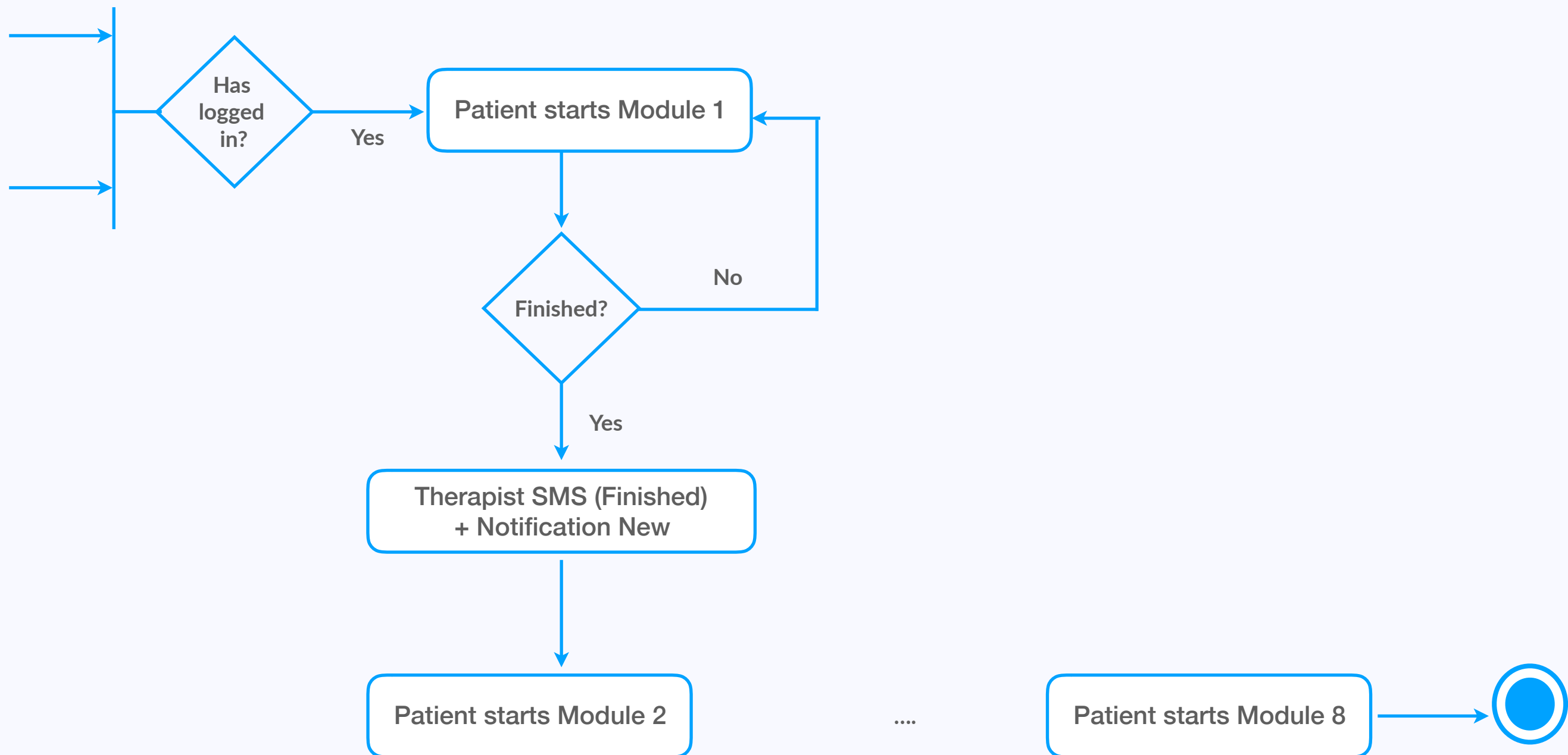
Use case diagram: Patient Perspective

Adaptation - Notification Systems

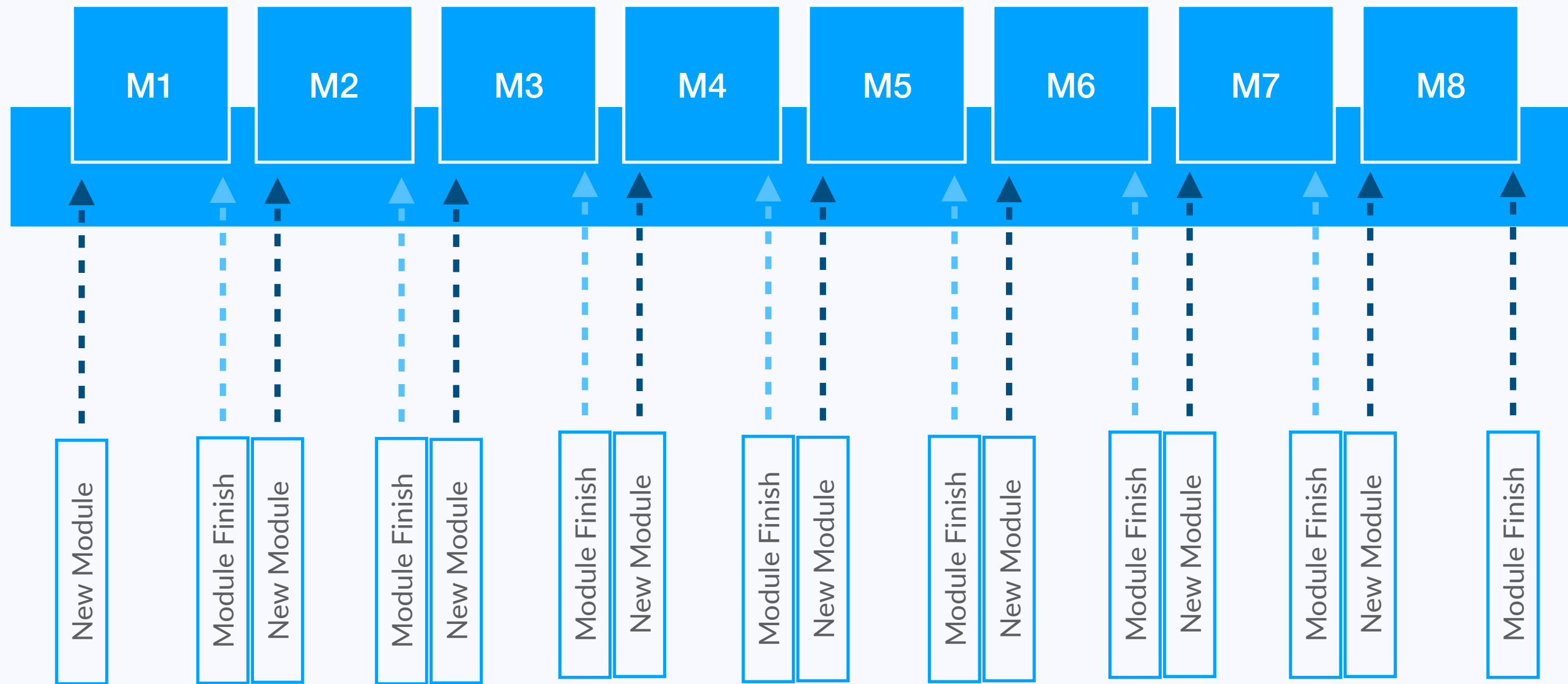


Adaptation in Notification System

Adaptation - Notification Systems



Adaptation in Notification System



Adaptive Elements



Feedback



Notifications/Alerts

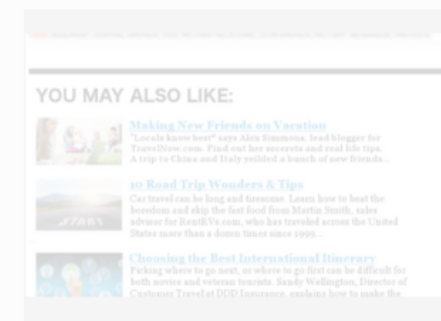
- User in activeness
- Reminders Library
- Exercise entries / Completion
 - Finished Reading
 - Complete exercise
- Start/End of modules



Content Presentation



Content Complexity



Recommendation



Information Architecture



User interface



Reports

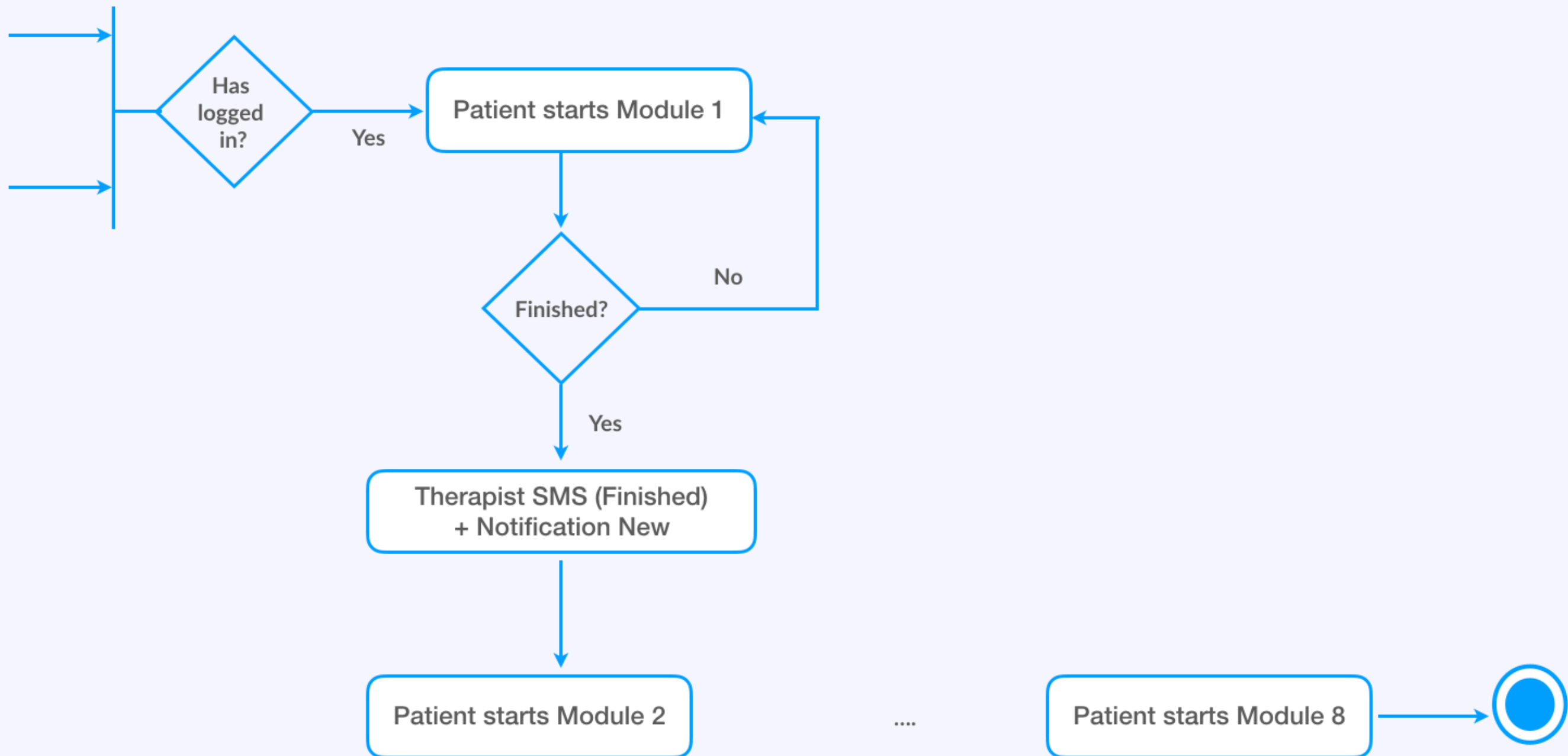
Information Architecture

Tunnel-based Information Architecture



No dependencies among the modules and Currently, no explicit evaluation criteria.

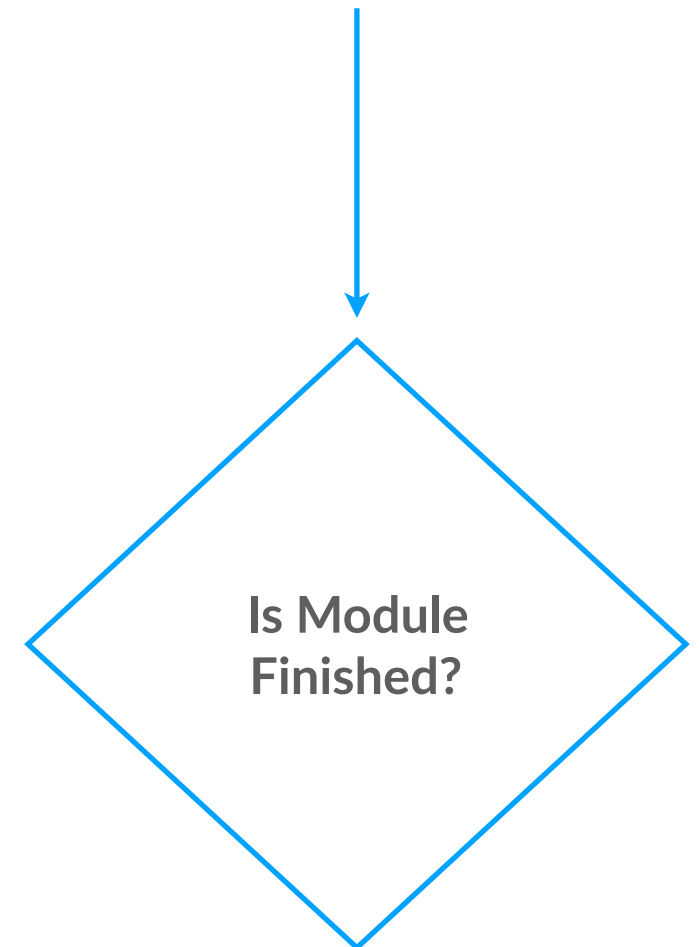
What can we learn from Modeling?



Adaptation in Notification System

What can we learn from Modeling?

- How do the Software know the module is finished?
- Perhaps, we store the log and see if user has logged in and stayed in the page at least for 10 minutes.
- Perhaps, the module contains, 3 Tasks: 1 Reading Text and 2 Quizzes. The module should be marked if one of the quiz is finished.
- Or, may be if in one of the quiz is graded, and the user has scored more than 40 points.





```
if ( (C2.isComplete AND C3.isComplete AND C5.isComplete) ) {  
    M1.isComplete = True  
}
```

Tasks	Evaluation	Conditions	Constraints
T1	(visited)	C1	Not Required
T2	(visited, entry made)	C2	Required
T3	(visited, entry made)	C3	Required
T4	(visited)	C4	Not Required
T5	(visited)	C5	Required

M2

Pust

Is Module 2
Finished?

- What are the main conditions?
What are the main evaluation criteria?
- These should be decided by the therapists?

Læringsutbytte



Erik



Pusten



Øvelser



Historier



Loggføring



Egentrening



Oppsummering av
modulen



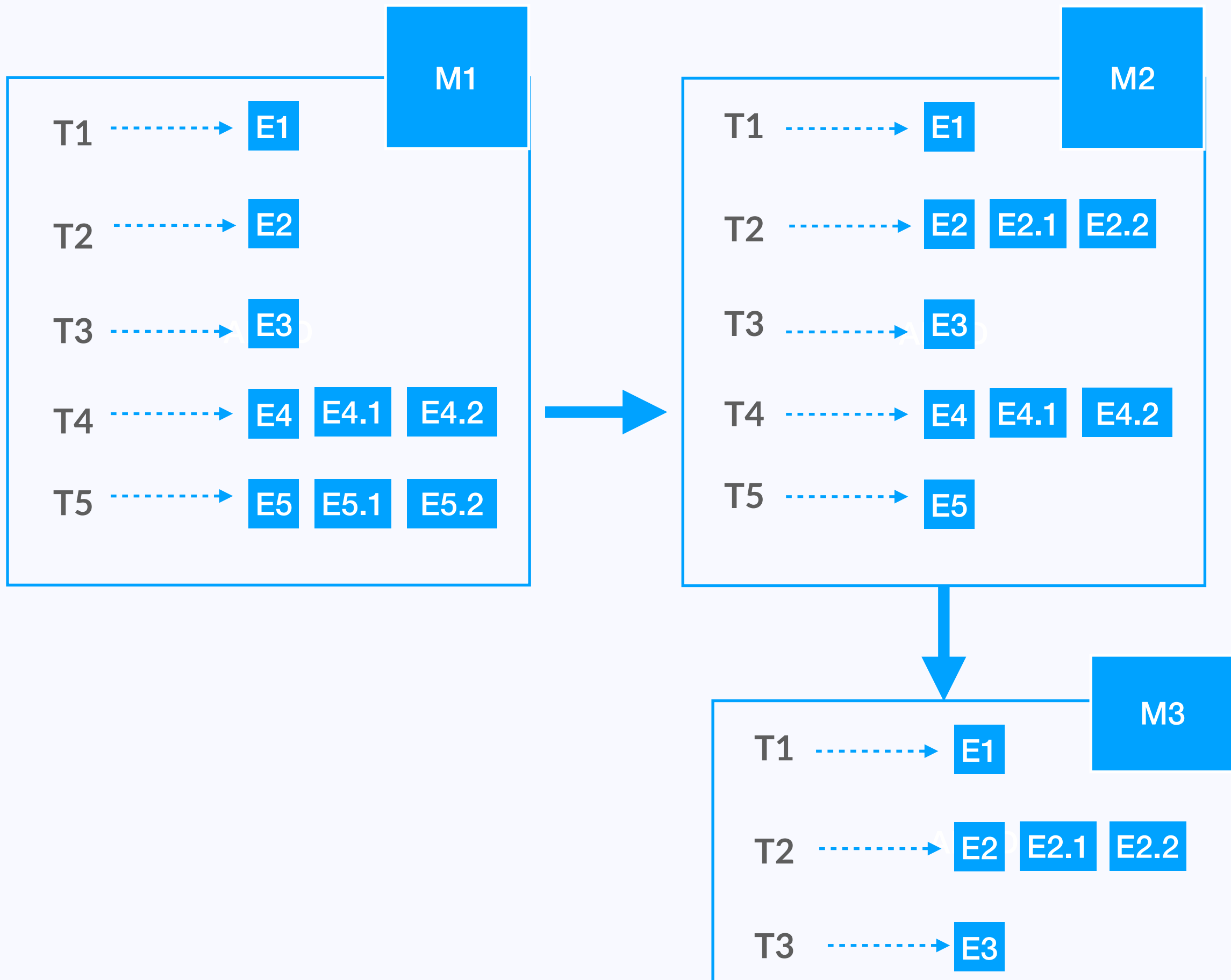
Avslutning



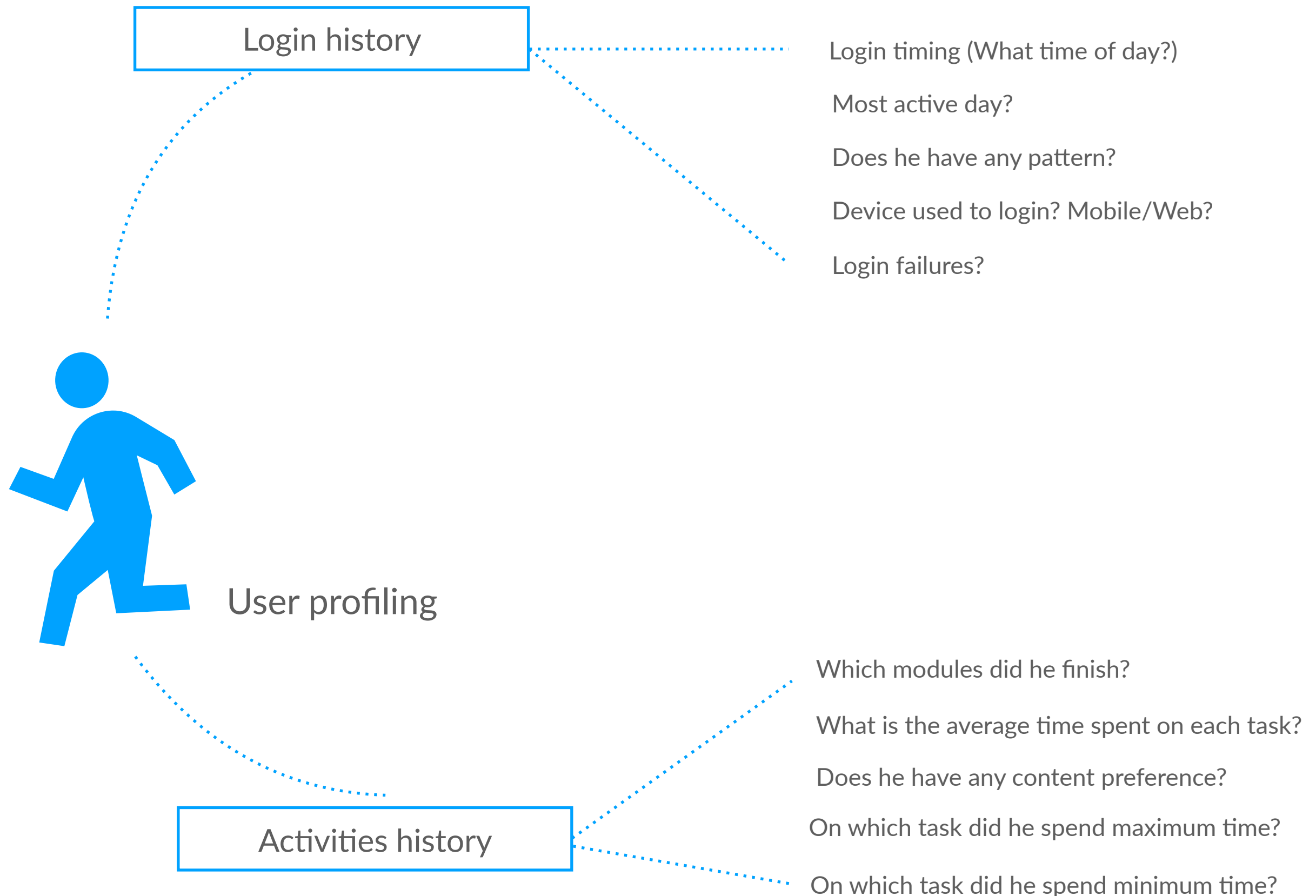
M2



Learning map constructed for Module 2



Knowledge map for Module Dependency



Thank You

- What do you want to adapt? (Content/Presentation/Format/Notifications/reports/system itself)
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