

#### Title Slide - Team Info & GitHub Link

•Team X – Section 000

•Members:

Michael Yaghi – 250AEB040

Noah N'Diaye Falcy – 250AEB039

Clovis Le Floc'h – 250AEB050

Maxime Viti - 250AEB014

Axel Pineau – 250AEB022

•GitHub Repository: https://github.com/Noah-ndf/site-web

#### Project Overview and Motivation

- •Problem: Psychologists need a modern, user-friendly tool to manage their appointments online.
- •Goal: Create a professional website that showcases the psychologist's services and enables online booking.
- •Motivation: Simplify administrative work and enhance accessibility for clients.

# Chosen SDLC Methodology – and Why

- •Model Chosen: Agile
- •Why Agile?
- •Frequent client feedback (mockups, weekly iterations)
- •Flexibility to implement evolving requirements (e.g., email notifications, 24h cancellation logic)
- Rapid prototyping and testing



### Requirements Gathering & Analysis

•Sources: Direct questions to the psychologist, weekly team journals

•Key Findings:

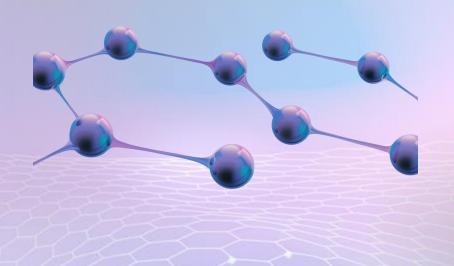
Clear display of services and credentials

Secure client login system

Time-slot-based booking system

Mobile compatibility

Optional features like email alerts and video consultations





## Software Requirements Specification

#### Functional:

User login/registration

Psychologist sets availability

Clients book/cancel sessions

Dashboard for both roles

Email confirmation

Non-Functional:

Responsive design

Security (hashed passwords, JWT)

GDPR compliance

Load time < 2s

#### System and Software Design

- Architecture: Modular RESTful API
- Backend: Node.js, Express, MongoDB
- Frontend: React, Axios, React Router
- Authentication: JWT with role-based access
- Email Module: Asynchronous utility for confirmations



### Implementation Phase

- Frontend: Registration, login, booking UI, protected routes
- Backend:
- CRUD API for users & slots
- Authentication middleware
- MongoDB schemas for integrity
- Git & GitHub: Centralized development with pull requests

## **Testing Strategy**

- Manual Testing with Postman for APIs
- Black-box testing for booking flows
- Equivalence Class Testing:
- Valid/invalid credentials
- Available/unavailable slots
- Logged-in vs not logged-in users

#### Test Results and Validation

- Major Test Cases Passed:
- Booking validation
- JWT route protection
- Form validation & feedback
- Tools Used: Postman, browser DevTools
- Edge Cases:
- Booking expired slots
- Overlapping availabilities
- Cancelling < 24h

# Process Challenges and Lessons Learned

#### ·Challenges:

- Syncing frontend and backend logic
- Managing async email triggers
- Enforcing booking rules

#### ·Lessons Learned:

- Better planning for roles
- Importance of consistent testing
- Modular backend design benefits



## Demo Overview - What Features You'll Show

- User registration & login (client and psychologist)
- Psychologist managing availability
- Client booking and cancellation
- Live dashboard updates
- Email notification trigger

#### Conclusion and Future Work

- •Summary: Built a working full-stack appointment management app for psychologists
- •Next Steps:
- Add video consultation feature
- Build admin analytics view
- Deploy to production with CI/CD

## Q&A / Feedback

We appreciate your time and attention throughout our presentation.