Student Navigator App

Motivation

Build a simple, calm app that **makes the next sensible steps in a study path obvious**, keeps that path **always in view** to support motivation, gives students **access to seminar materials** for the sessions they actually attended, and lets **future students** browse a **time capsule** showing **what previous students worked on** and **the one-sentence tips** they wanted to pass on.

What the app should accomplish

- **Soft roadmap:** A clear list of all courses (or, for a single course, its internal blocks), with statuses, for example: *completed*, *ready*, *almost ready* (show what's missing), *not yet*.
- **Gentle guidance:** Display 1–3 **"next best step"** suggestions—no forcing, just help.
- **Time capsule per course:** A chronological timeline mixing **short, concrete tips** (one per student, ≤200 chars) and, where useful, **curated screenshots/examples** of work from prior cohorts.
- **Seminar sessions made useful:** Instructors create sessions; attendees unlock **ongoing access** to that session's whiteboard screenshots/materials via **QR/code** shown in the live session.
- **Low-friction access with codes:** Join code, "completed" codes per course/block, and short-lived session codes—no accounts or passwords required.
- **Privacy-first, grown-up tone:** No grades, no rankings, no chat noise—just orientation, artefacts, and short, useful contributions.

Primary users & requirements

Students

- I can **see at a glance** what I've done and **what exactly is missing**.

Student View (Main View)

🌐 https://www.course-manager.com/computer-science-bsc

My Courses Overview App
(Student View)

Andreas

Einführung in das wissenschaftliche Arbeiten

[Time Capsule] [Seminar-Sessions]

[Description of Course Bla Bla Bla]

Mathematik 1

[IMAGE]

[Unlock] [Seminar-Sessions]

[Description of Course Bla Bla Bla]

Einführung in das Programmieren

[IMAGE]

[Unlock] [Seminar-Sessions]

[Description of Course Bla Bla Bla]

[NAME COURSE]

[IMAGE]

[Unlock] [Seminar-Sessions]

[Description of Course Bla Bla Bla]

Figure: Example UI design for students' main screen of the app.

- I get **sensible next steps** without being forced into a path.
- After completing a course, I can **add one short tip** to the time capsule and read prior tips; for suitable courses I can view **example screenshots**.

- If I **attended** a seminar, I can later **access that session's materials**.
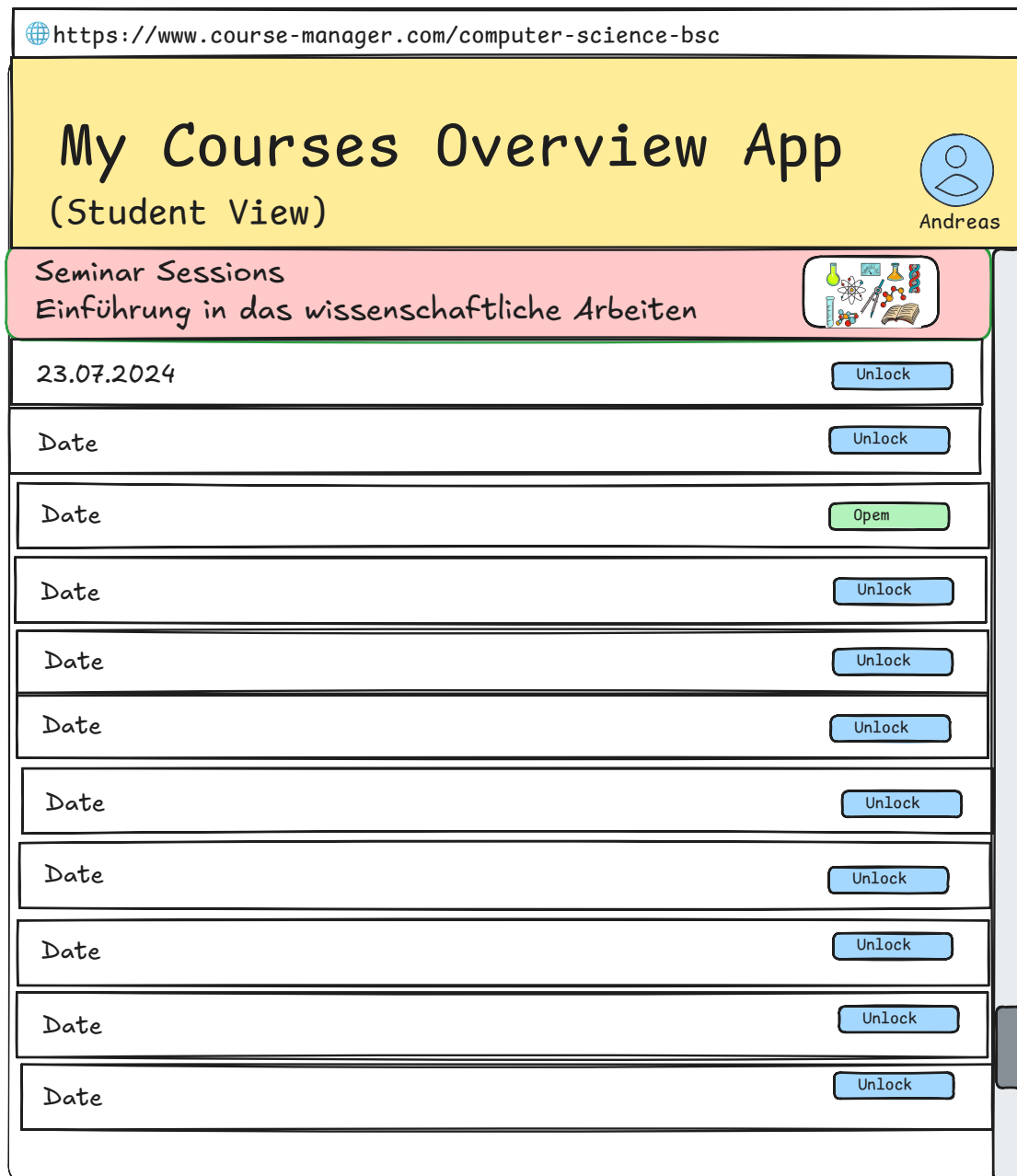
Student View (Seminar Sessions View)

🌐 https://www.course-manager.com/computer-science-bsc

My Courses Overview App
(Student View)

Andreas

Seminar Sessions
Einführung in das wissenschaftliche Arbeiten

23.07.2024	Unlock
Date	Unlock
Date	Opem
Date	Unlock
Date	Unlock
Date	Unlock
Date	Unlock
Date	Unlock
Date	Unlock
Date	Unlock
Date	Unlock

Figure: Example UI design for students' screen of seminar sessions.

- **Low friction:** unlock via QR/code; no passwords to remember.
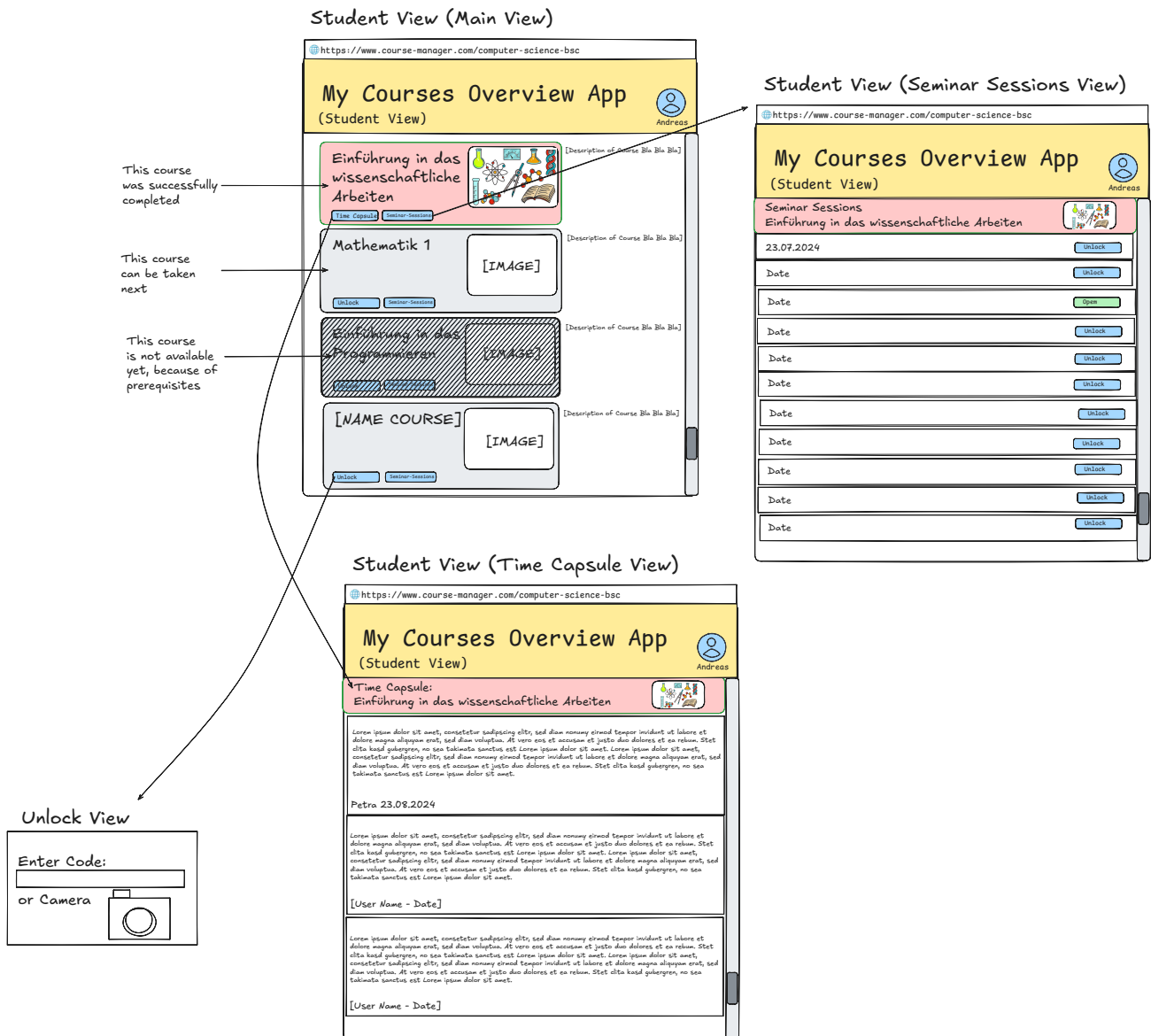

Figure: Overview screens for students

Instructors

- I can **create seminar sessions**, show a **QR/code** during the live meeting, and **upload screenshots/materials** afterwards—done.
- I can **invite selected students** (where appropriate) to contribute **visual examples** to the course's time capsule.
- I can generate **codes** (join, completed, session unlock).

Program lead / Admin

- I can set up **a full curriculum** *or* **a single course with blocks** (including dependencies).
- I can generate **codes** (join, completed, session unlock).
- I can **moderate time-capsule entries** (approve, pin, **delete if inappropriate**).
- I can view a **lightweight usage summary** (aggregated, no personal data).

- I can generate **codes** (join, completed, session unlock).

Core features (MVP)

1. **Roadmap as a list** (courses or blocks) with status chips and subtle recommendations.
2. **Code-based completion:** Students mark a course (or block) as **completed by scanning or entering a one-time code**; this updates the roadmap status and unlocks their time-capsule contribution.
3. **Time capsule (per course) as a chronological timeline**:
   - **Text tips:** one sentence per student (templates like *Getting started / Avoid this / Order matters*).
   - **Visuals:** curated screenshots/examples from invited students.
4. **Seminar sessions** with **QR/code unlocking** and a **materials gallery** for attendees.
5. **Admin area** for structure, sessions, codes, and moderation/deletion.
6. **Privacy by design:** no grades, no public profiles.

Out of scope (by design)

- No chat, likes, or public profiles.
- No integration with exam/grade systems; **"completed"** is unlocked via code.
- No deadlines or time-based requirements (voluntary, time-neutral).