

Topic: Study Session Planner Assistant:-

Pain Point:- (A)

- 1- Student know they need to study but don't know how to ~~base~~ break big breaks goals into small daily task so they feel confused and worried.
- 2- Student struggle to plan their study time. They have exams or deadline coming up but can't organize topic across their available hours.
- 3- Students have limited time and many topics, but no clear structure. They don't know when to study which topic, which leads to last minute cramming.
- 4- Students have limited time and many ~~time~~ ^{topics} but no clear ~~study~~ structure. They find it difficult to balance workloads or include revision for harder subjects

- 5- Without a guided plan, student feel stressed and unsure how to prepare effectively for an upcoming exam or project.
- 6- Underestimate workload, forget revision, or cluster too many difficult topic into one day
- 7- know what they need to study but not how distribute the work across their limited available time.
- 8- Feel overwhelmed when approach because they never created a structured schedule.

Why it matters:

University student operate under tight deadlines and inconsistent daily availability. into a structured (1-2) week study plan

- Reduces cognitive load they no longer

need to plan everything manually)

- Improves retention through spaced practice
- Encourage time - management habits
- Increases confidence and performance on assessments

Scope:- (B)

- User tells the system the goal (exam/project) topics, difficulty and free time slots.
- System generates a 1-2 week study plan.
- Topics are distributed fairly across days.
- Difficult topic gets some extra revision time.

Out of scope:-

- full calendar syncing (google calendar etc)
- AI difficulty prediction based on behaviour.
- Long term plan more (than 2 week)
- Real time reminders or notification
- Automatic performance tracking

Release & Evolution Plan:- (G)

(3 month Plan MVP to VP1)

- Improve scheduling logic.
- Add editing of topics inside the UI
- Add filters like Morning study/Night Study.

1 -Year Plan:-

- User account and cloud saving
- Calendar visualization
- Difficulty-based smart revision recommendations.

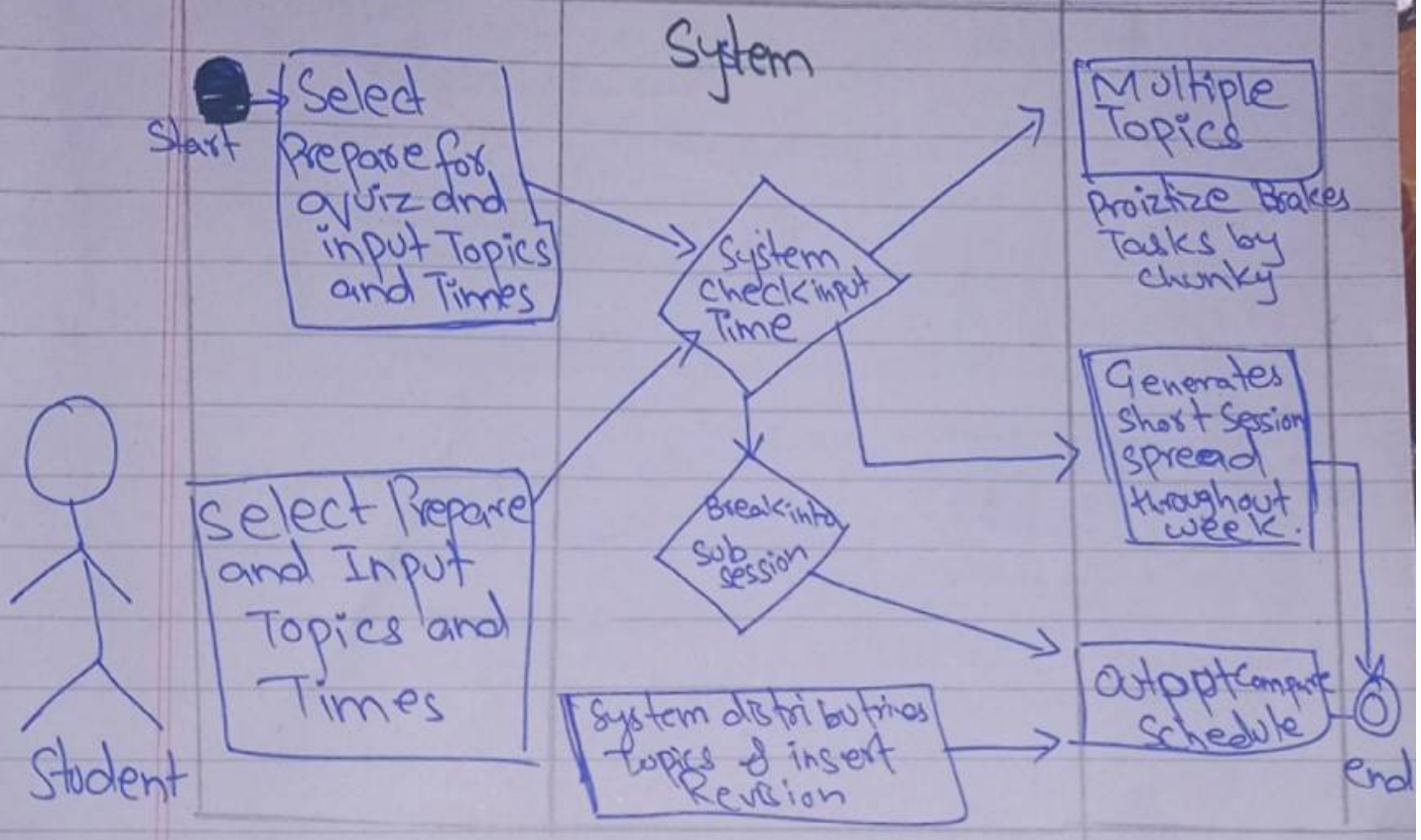
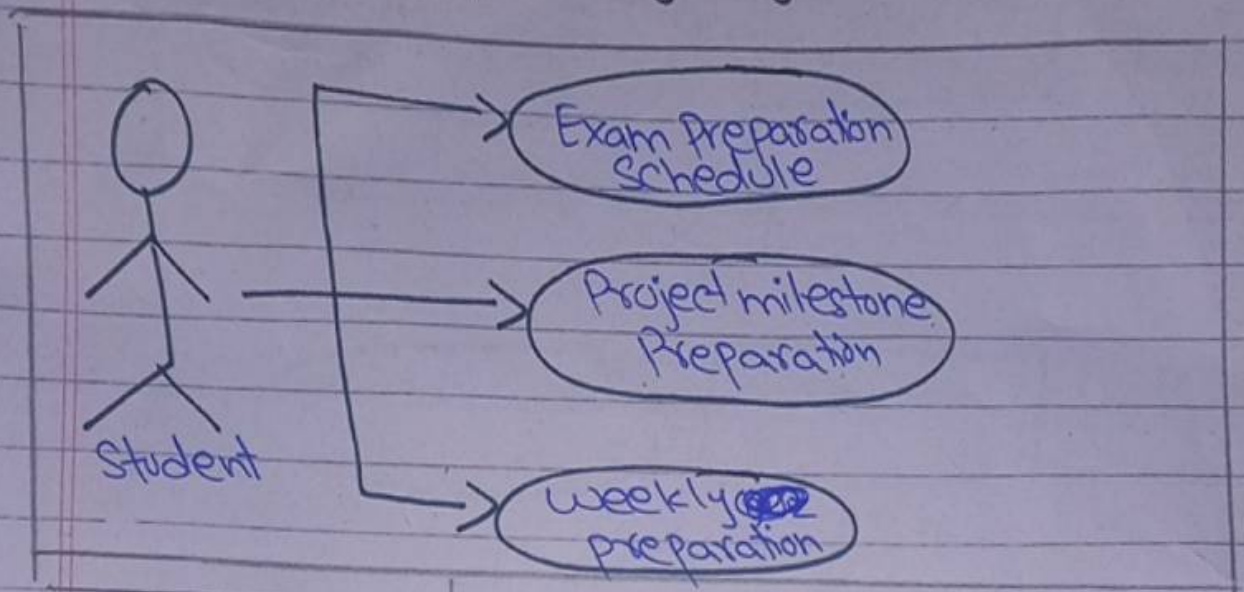
2 Year Plan:-

- AI-based smart planner that learns from user habits.
- Integration with google Calendar.
- Personalized reminders and analytics dashboard.

Design UI/UX:- (B)

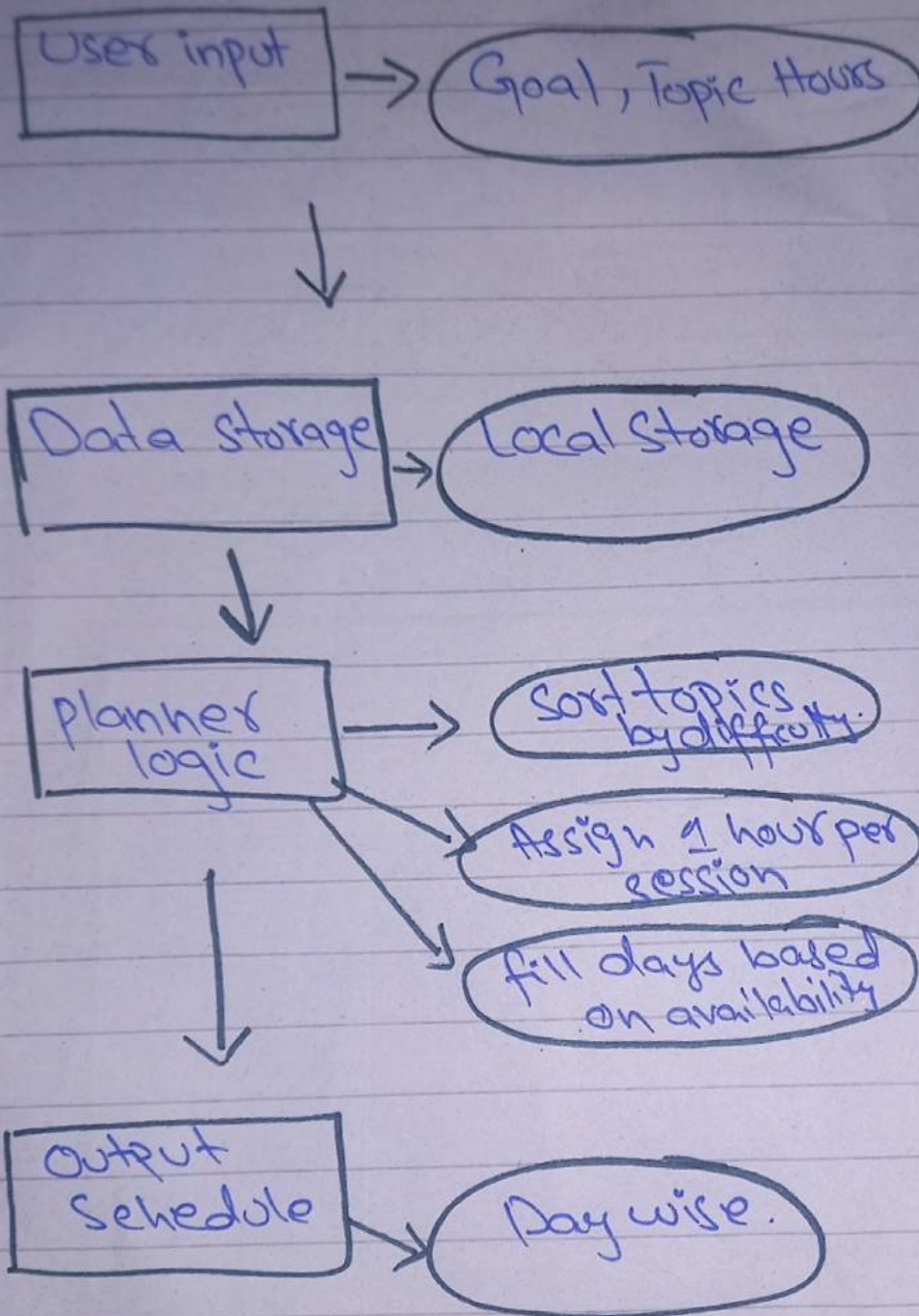
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Study planning System:-



(B)

High-level Design / Data flow



(C)

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Study Session Planner MVP:-

This is a simple web based study planner that helps students turn their study goals into a clear 1-2 week plan.

Student enter topics difficulty and availability hours, and the system generates a schedule.

features

- Add study goal start date and number of days.
- Add daily availability.
- Add topics with difficulty level and hours.
- Dark & light mode.
- Everything saved in browser local storage.

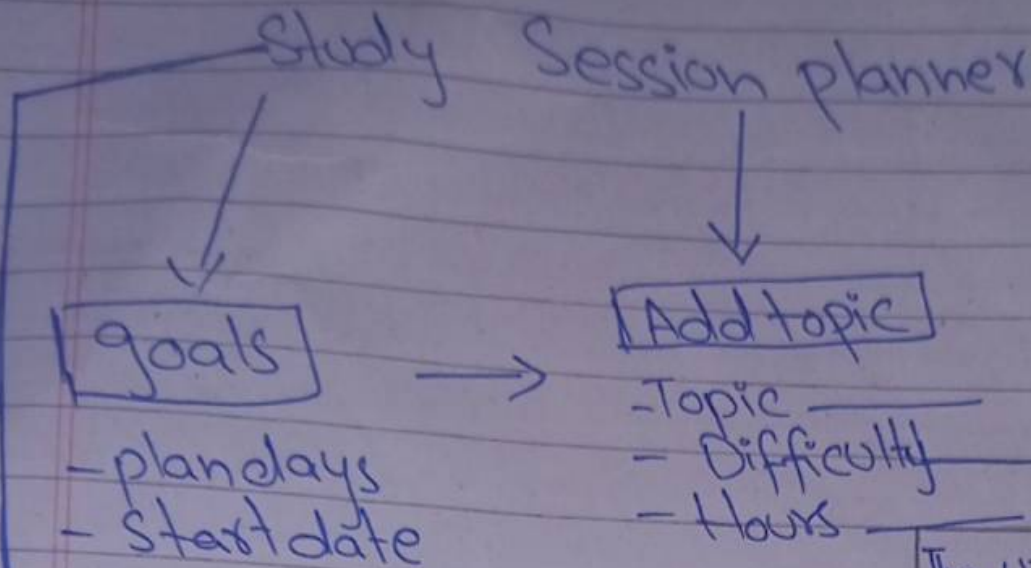
D Test Plan

Test cases	Input	(steps description)	Expected Result	Actual
1	valid topics valid hours	Add topics → Save → generate plan	Daywise schedule	Works Pass
2	No topic	Skip topics → generate schedule	Should show free day	Works Pass
3	Difficulty 5 topics	Add topics difficulty 5	Hard topics appear first	Works Pass
4	Daily hours = 0	Set 0 hours	Day shows Free day	Works Pass
5	More hours than needed	Many hours with few topics	Schedule end early no errors	Works Pass

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UI sketch vision



Save

Daily Availability

Daily 1 — hrs

Daily 2 — hrs

Daily 3 — hrs

Save.

final Schedule

Daily 1:

Chap 1 — 2 hr

Chap 2 — 3 hr

Daily 2:

Chap 2 — 2 hr.

Chap 3 — 1 hr.

The UI is designed to be clear & easy to follow. Each major step (goal, topics, availability, schedule) is placed in its own page to avoid confusion. Student only see the information they need at each step. The final schedule is shown in clear day-wise cards making it easy for student to know what to study each day. The goal is to reduce stress by keeping everything simple, organized & easy to understand.