**Project Title:** Glide+

**Team Name:** Gliders

**Team Members and Roles:**

Hanna Berhane: Backend

Wafae Benkassou: Frontend

Joseph DiMartino: Backend

Anthony Soria: Frontend

**GitHub Repository URL:** [Github Repo](https://github.com/hannaberhanne/glide-capstone.git)

**Trello Board URL:** [Trello URL](https://trello.com/b/ojeLj9Bu/glide?utm_source=eval-email&utm_medium=email&utm_campaign=board-invite)

**Project Summary**

Glide+ is an AI-powered student life platform that helps college students stay on top of academics, habits, and social activities in one place. It combines adaptive scheduling, gamified habit tracking, personalized course navigation, and group trip planning. The system reduces stress by automatically rescheduling missed tasks, motivating students with rewards, and supporting long-term academic and personal goals.

**Main Features**

* **Adaptive Planner**: Add/edit assignments, Canvas sync, AI rescheduling, notifications.
* **Quest Habit System**: Track daily habits, earn XP/streaks, unlock rewards.
* **Course Navigator**: Degree prerequisites, balanced schedules, workload suggestions.
* **Travel Planner**: Plan trips, split costs, vote on options, view reviews.

**Sprint Outline**

**Sprint 1 (Foundations & AI baseline | due Nov 10) — Must/Should/Nice**

* **Must:**
  + Repo, Trello, basic project skeleton (frontend/backend), DB seeded with sample data.
  + Auth (email/password or Firebase Auth).
  + AI extraction v1: paste syllabus text → returns {title, dueAt, course, type} JSON; saves to DB; shows in planner list.
  + Habits MVP: create habit, mark complete, simple streak count.
* **Should:**
  + Planner views: Today/Week; edit/delete tasks.
  + Prompt spec v1 + JSON schema validator + retry policy.
* **Nice:**
  + Cost/latency logging for AI calls; minimal notifications (due-soon banner).

**Sprint 2 (Core features & smarter AI | due Nov 24)**

* **Must:**
  + Canvas sync (import assignments).
  + **Auto-replan** when a task is missed (bump + reschedule with constraints).
  + Habits: XP + streak badges.
* **Should:**
  + Course Navigator: prereq view; **balanced schedule suggestion** (heuristics).
  + Notifications: due-soon and streak-at-risk.
* **Nice:**
  + Extraction v2 accuracy pass with a 20-item labeled set; report metrics in /docs.

**Sprint 3 (Polish & stretch | due Dec 10)**

* **Must:**
  + Testing/bugfix; dashboard polish (planner + habits + navigator widgets).
  + **Travel MVP:** create trip, participants, simple cost split.
* **Should:**
  + Burnout/reset mode (pause tasks, preserve streak context).
  + Level-up system (XP → level).
* **Nice:**
  + Plan for Sem 2: HF local classifier prototype; calendar write-back; improved extraction.

**Extra Work (If Time Allows)**

* Accessibility tuning (keyboard, contrast).
* Analytics page (planned vs completed, streak history).
* Advisor/admin view (read-only).

**Risks & Mitigations**

* **API limits/costs:** cache results; batch calls; fallback regex.
* **Data inconsistency in syllabi:** few-shot exemplars by course; manual correction UI.
* **Team bandwidth:** strict MVP per sprint; defer Travel depth to Sprint 3/Sem 2.

**Must :**

* Set up project structure (frontend: React Native/web, backend: [Node.js/Express](http://node.js/Express))
* Initialize database (TBD)
* Implement secure login
* Implementing Canvas API

**Should Haves:**

* Basic daily/weekly planner page (tasks appear from syllabus/Canvas)
* User Profile (maybe)

**Nice to Have:**

* Simple test call to OpenAI API (proof of concept for syllabus extraction)
* Basic styling/branding (colors, header, logo placement)

**Sprint 2: Core Features**

**Must Haves:**

* AI syllabus extraction (OpenAI LLM)
* daily/weekly planner
* Auto-replan for missed tasks
* Habit/quest system (create habits, XP, streaks)

**Should Haves:**

* Some sort of notifications (for replans, due-soon, streak at risk)

**Nice to Have:**

* Spring Break/Social planner (prototype): see where students are going, basic cost filter, and group coordination
* Calendar exporting (allow users to take tasks/plans and put on their calendar)

Sprint 3:

• Travel Planner MVP (🟧 Travel)

• Travel Planner: split costs + voting (🟧 Travel)

• Burnout/reset mode (🟦 Wellness)

• Dashboard polish (🟦 / 🟩 UI)

• Level-up system (🟩 Habits → levels)

• Testing + debugging

**Must Haves:**

* Thorough testing & debugging of core features (login, syllabus AI, planner, habits)
* UI improvements (clean dashboard, notification display, planner view polish)

**Should Haves:**

* Fully set up notifications (clearer alerts for replans, streaks, due-soon tasks)
* Level up system (gaining xp for completing tasks)

**Nice to Have:**

* Energy-level task categorization (e.g., high-focus vs. quick wins)
* Burnout mode / weekly reset feature

**Extra Work**

* **Analytics dashboard:** study time vs. habits completed, streak insights
* **Chatbot assistant:** quick AI Q&A (“What should I work on next?”)
* **Advanced gamification**: leaderboards, badges, achievements, adding friends