

CampusCruiser: Autonomous Campus Food Delivery

Robots on campus. Meals on
time. Operations you can trust.

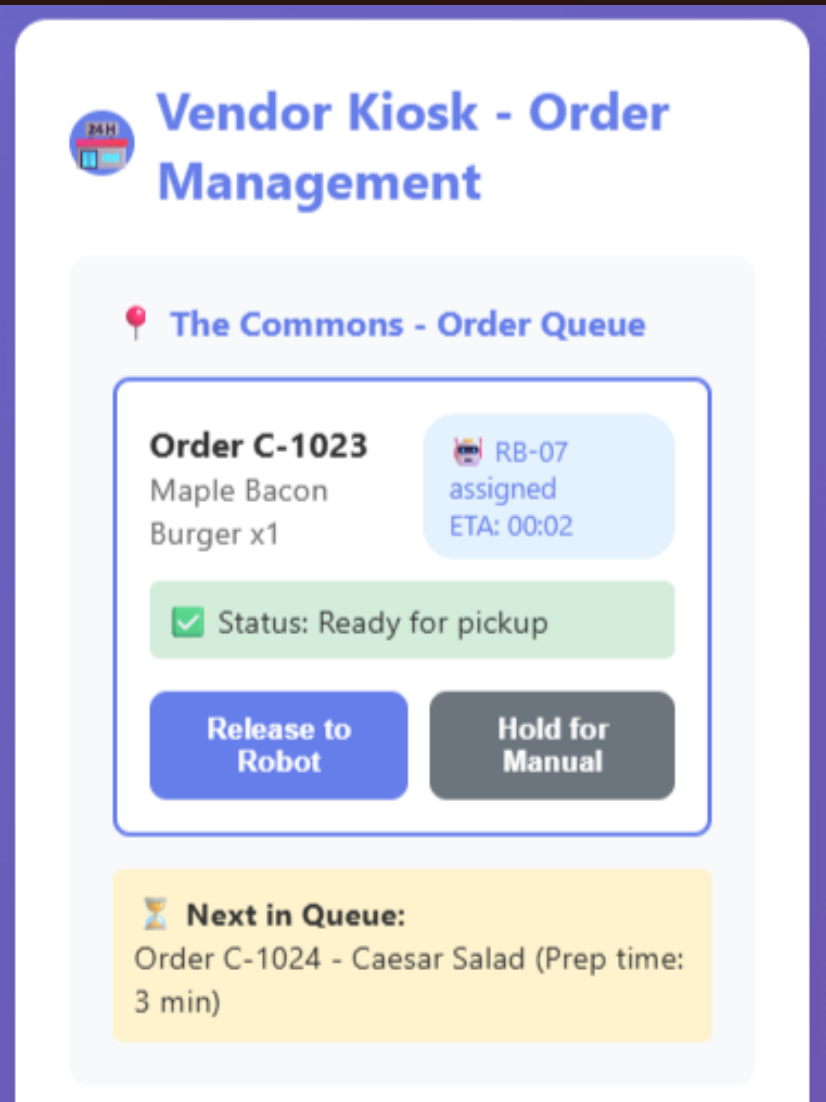
Group 6 Members:

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- b) Aniruddh Bhagwa
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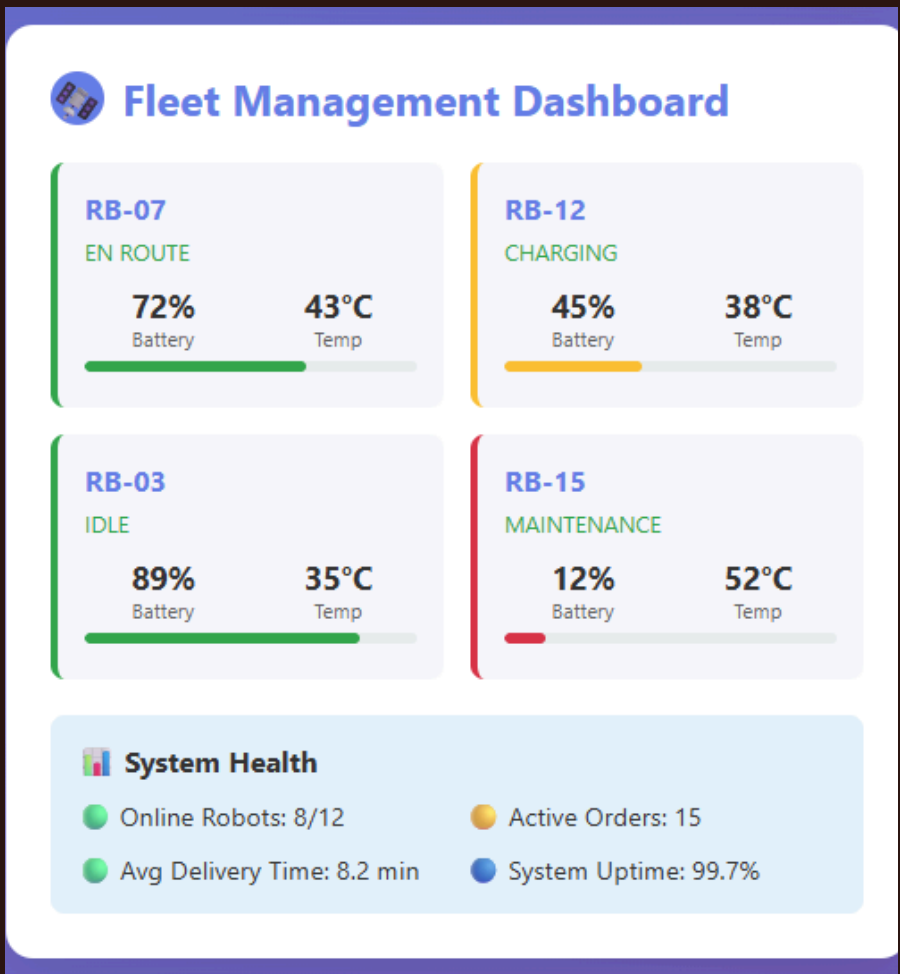
Core Features

- Student app: menu, checkout, live robot tracking.
- Vendor kiosk: quick order release & status.
- Fleet portal: map, per-robot telemetry, commands.
- Admin portal: geofences, incidents, analytics.
- Safety: geofences, alerts, manual overrides.



Mission Statement

CampusCrusier is a unified platform for campus food delivery powered by autonomous robots. Students order meals in seconds, vendors hand off with one tap, and robots deliver directly across campus. Universities gain safe, policy-compliant fleet operations, while engineers monitor real-time health, telemetry, and maintenance. The result: faster deliveries, lower costs, and transparent, reliable campus logistics.

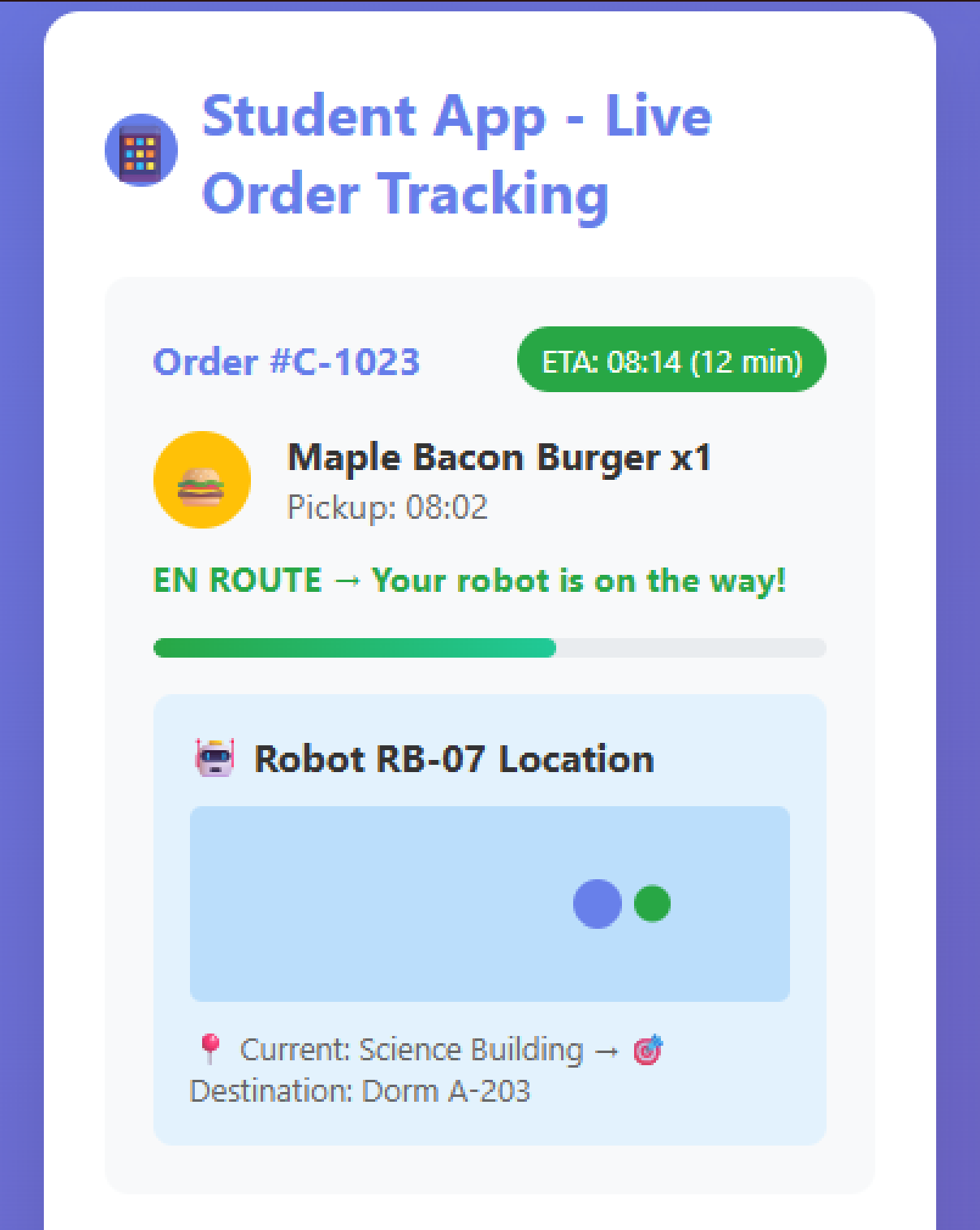


Milestones (Release 1):

- Core API & DB: Orders, Robots, Users, OpenAPI spec, Python server (FastAPI).
- Student app wireframes & basic React Native flow connected to API.
- Telemetry simulator + dev dashboard showing robot positions & battery.
- Vendor kiosk: order handoff flow + basic end-to-end demo

Stakeholders

- Students — order & track.
- Vendors — receive & hand off.
- Robots — autonomous fleet assets.
- Engineers — diagnostics & repair.
- University Ops — policy & safety.
- Admins — refunds, analytics.



Milestones (Release 2):

- Robot health monitoring & alerting: Prometheus exporters + Grafana dashboards.
- Geofence & policy engine in admin portal; dispatch respects zones.
- Remote-control & maintenance workflow for engineers (maintenance mode).
- Pilot plan & safety checklist for controlled corridor deliveries