

Sprint Milestones & Deliverables

The following Sprint milestones and deliverables were formulated and added to the team charter this week. This cost & deliverable scoping is preliminary and will most likely shift as the project unravels and we get a better understanding of our sprint velocity and how well we manage scope creep in the later stages of the project.

Sprint 1:

15/03/2021 – 28/03/2021

Milestone:

- Boilerplate code initialized and dev environment setup instructions documented for each of the following:
 - Frontend framework
 - Backend framework
 - Machine learning workspace
- Landing page & dashboard designs commenced.
- Third party vendors assessed and engaged.
- App authentication implemented and integrated with frontend.
- CI/CD infrastructure implemented.

Deliverable:

- GitHub repositories updated with initialized apps.
- App Authentication.
- Database initialized and integrated with backend.
- Database schema designed.
- Setup

Cost AUD:

\$0 (Heroku free tier instances can be used for staging/prod environment setups)

Sprint 2:

29/03/2021 – 11/04/2021

Milestone:

- Data pipeline / API.
- ML proof of concept for recommendation system.
- Landing page finalized.
- Dashboard implementation commenced.

Deliverable:

- Landing page
- ML proof of concept
- Dashboard WIP

Cost AUD:

\$50 (hypothetical depending on purchase of custom front end theme / cloud compute)

Sprint 3:

12/04/2021 – 25/04/2021

Milestone:

- Dashboard WIP
- API WIP
- ML WIP

Deliverable:

- Account management/system pages

Cost AUD:

\$50

Sprint 4:

26/04/2021 – 09/05/2021

Milestone:

- Frontend dashboard complete (promised MVP)
- ML system deployed.
- Test Suite WIP.

Deliverable:

- End to end trip plannable on frontend.
- Recommendation engine.

Cost AUD:

\$100

Sprint 5:

10/05/2021 – 16/05/2021

Milestone:

- End to end test suite execution.
- Intrinsic & extrinsic documentation finalized.
- MVP application polished & ready for demo.

Deliverable:

- MVP application delivered.

Cost AUD:

\$100

Rough cost scoping for project

Infrastructure		
Purpose	Resource Type	Cost (/month)
Web app server	t2 small	\$ 22
API server	t2 small	\$ 22
ML server	t2 micro	\$ 11
ML training cluster	ml.m5.2xlarge	\$155
S3 (storage)	20GB	\$ 1
MongoDB Dedicated cluster		\$ 57.00
Miscellaneous cost buffer		\$100
SaaS vendor costs		\$50
TOTAL REQUESTED FUNDING (AUD)		\$1276

SCRUM Meeting Cadence

The scrum team will have three meetings a week during which sprint planning, retrospectives & general sprint discussions will take place. Sub-team leaders will be delegated, and the first sprint will commence on 15/03/2021.