

# Project Proposal

*COMP90018 Mobile Computing Systems Programming*

Group: Yichen Li, James Simon Yew, Di Sun & Andrew Bevitt

We will develop an Android app. and a related web service to allow citizens to engage with government and civic agencies in their local area. The app. will allow users to document and report civic works that are required; engage in a discussion with the responsible agency or department; and optionally view, comment on and promote other users submissions.

As reporting needs to be quick/efficient the app. will track users locations and automatically embed that into each report. Work will be undertaken to ensure location tracking data is anonymised and that it does not kill battery life of users smart devices.

## Proposed Marking Scheme

Location tracking <ul style="list-style-type: none"><li>• App. should “immediately” know where user is</li><li>• App. should allow user to correct location (i.e. if in a tunnel / no signal</li><li>• Battery life should not be affected</li></ul>	6 / 20
Networking and web service <ul style="list-style-type: none"><li>• Users can work anonymously or register an account</li><li>• Allow back and forth discussion between user and agency</li><li>• Minimise bandwidth requirements and handle offline mode</li></ul>	6 / 20
User Interface <ul style="list-style-type: none"><li>• Map with overlay for reported works locations</li><li>• Simple reporting form with camera operations</li><li>• User account management</li></ul>	6 / 20
Optional Extras <ul style="list-style-type: none"><li>• View other reported works in the local area</li><li>• Social engagement: users can comment on and promote reports</li><li>• Data analytics based on the collected trajectories</li></ul>	4 / 20