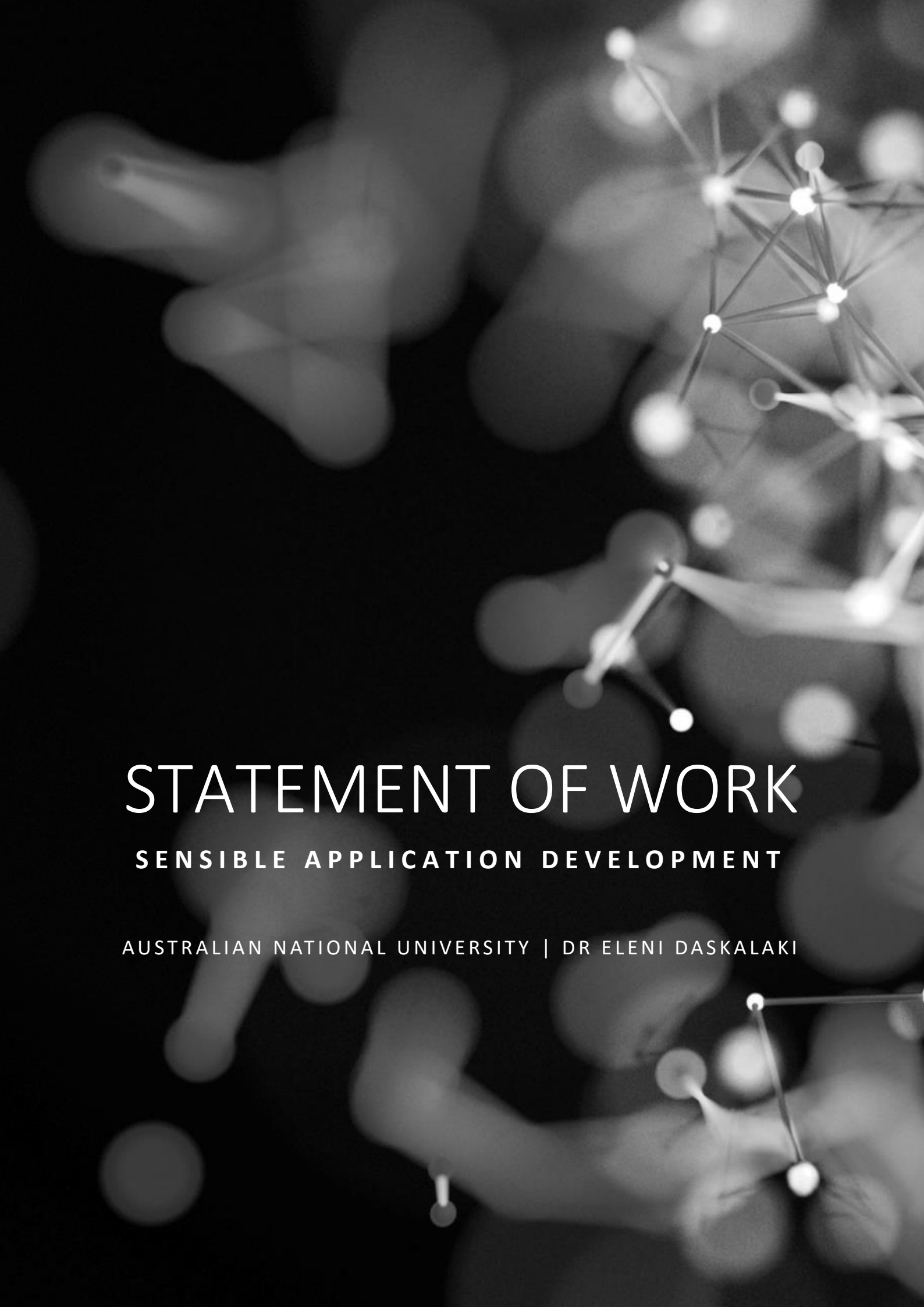

STATEMENT OF WORK

SENSIBLE APPLICATION DEVELOPMENT

AUSTRALIAN NATIONAL UNIVERSITY | DR ELENI DASKALAKI

1. Statement of Work brief details

Statement of Work number: 001

This Statement of Work expires if not executed by both parties on: 31 March 2021

2. General

The Statement of Work lists the services and activities required by Eleni Daskalaki (the Client) from the Australian National University (the Supplier) under the 'TechLauncher' subject course.

3. Organisation

PROJECT NAME	Sensible
CLIENT	Dr Eleni Daskalaki
SOW VERSION NUMBER	0.0.2
CLIENT EMAIL	eleni.daskalaki@anu.edu.au
MAILING ADDRESS	Australian National University, Canberra, ACT, 0200
DATE PREPARED	04/03/2020
AUTHOR:	Madeleine Carden and Tristan Smith
PROJECT MANAGER	Ryan Turner
BEGIN DATE	01/03/2020
END DATE	01/06/2020
PROJECT DURATION	3 months

4. Project Team

NAME / TITLE	CONTACT INFORMATION
IAN OXBORROW	U6668026@ANU.EDU.AU
MADELEINE CARDEN	U5849803@ANU.EDU.AU
MICHAEL CHEUNG	U6181123@ANU.EDU.AU
RYAN TURNER	U6040885@ANU.EDU.AU
CHATHURA GALAPPATHTHI	U6947345@ANU.EDU.AU
TRISTAN SMITH	U6949592@ANU.EDU.AU

5. Project

Students will be required to build a cross system phone application for iOS and Android devices and a back end system for the application called Sensible.

Sensible is an application which takes data from sensors already built into phones, both outputting the data in real time and storing the data for later use. It gives user a great UI which they can use to label data from any sensor on their phone in real time as the data is being recorded. It differs from current applications as it allows capturing, annotating and exporting information from all sensors on a device in one place.

6. Background

Current applications available allow data capturing from a limited number of sensors on a phone, but don't include the ability to capture data from any of the sensors and visualise (where applicable) or label the data in real time.

The aim for this project is to create a free application which can be used by students to generate labelled data for research purposes, and to collect and send this data entirely from their mobile devices.

7. Resource Requirements

A team of ANU (Australian National University) students to design, build, execute and produce a minimum viable product for the presentation to clients and potential future users.

8. Project Schedule (high level)

PROJECT	**HOURS**	**Purpose**
Plan	30	Design the platform both front and back end
Build	60	Developing operational capability
Execute	30	Executing code to run and push to app store
FEE SCHEDULE		
None. Students work on the project as part of their course code requirements		

9. Scope of Work

Students will produce an application which is able to receive data (where available) from the following sensors: camera, microphone, accelerometer, GPS, Wi-Fi signal strength, barometer, temperature, magnetometer, humidity, gyroscope, ambient light and proximity sensors. Additional sensors may be added to this list after a thorough search has been conducted to compile a list of smartphone available sensors.

10. Project Deliverables

1. Market analysis of products to ensure no products with the same functionalities exist
2. Design a minimum viable product (including some of the mentioned sensors) with the potential of further improvements for future iterations
3. Implement real time visualisations of data collected from sensors
4. First platform design, execution and feedback processes (Gitlab issues board, SCRUM)
5. Second platform design, execution and feedback processes (and so on until a working minimum viable product is created)
6. Stakeholder presentations (internal)

11. Milestones

EST DELIVERY DATE	**PROJECT MILESTONE TITLE**
10/03/2021	Creation of SOW, first group meeting to discuss how and who will be gathering the business and technical requirements (outputs: Task list, SOW and IP documentation) PA1 Tag Reports Due (Wk3), PA1 Team Contributions Due (Wk3)
17/03/2021	Making decisions about the tooling and design for this phase of the project according to the gathered requirements. Review and revise. Market analysis for products to build the platform PA1 Feedback Released (Wk4), WPP Workshop 1 (Wk4)
24/03/2021	Coding and platform software engineering build to commence. Client and student interactions to be ongoing through constant communication, meet ups, links to build, testing and revising.
31/03/2021	Coding and platform software engineering build to continue. Client and student interactions to be ongoing through constant communication, meet ups, links to build, testing and revising. User engagement plans to commence being designed and implemented. AUDIT WEEK OPENS (Wk6), PA2 Tag Reports Due (Wk6), PA2 Team Contributions Due (Wk6),

2-19/04/2021	**Easter/Mid Term Break** (depending on development, students to ensure their level of work is maintained during this period). Students to review the SOW and provide feedback at session with client. PA2 Feedback Released (Bk1)
28/04/2021	Execution of development so far for both front and back ends presented to client. Implementation of further sensors and possible expansion of cloud storage exportation options. WPP Workshop 2 (Wk 8), Project Showcase Video Due (Wk9)
12/05/2021	Testing and polishing mature stage application prototype. AUDIT WEEK OPENS (Wk10)**,** PA3 Tag Reports Due (Wk10), PA3 Team Contributions Due (Wk10)
19/05/2021	Finalisation of all development platforms, coding to be saved and handover of tasks, review of both client and students of the project. Phase two outputs to be discussed. PA3 Feedback Released (Wk11)
26/05/2021	Final group review and feedback session with client and students. Work Portfolio Package Due (Wk12), Showcase (Wk12)

12. Deliverable Materials

Those set out within the Milestones as well as (at minimum) a functioning front user interface for both iOS and Android, with a functioning backend platform to support it. The app must include functionality of visual, audio and accelerometer sensors. Further details to be renegotiated on the 31st of March.

13. Stakeholders

PRIMARY PROJECT OWNER	DR ELENI DASKALAKI
OTHER PROJECT OWNERS/USERS	CHIRATH HETTIARACHCHI, SANDARU SENEVIRATNE, ROBIN VLIEGER, PROF HANNA SUOMINEN
PROJECT TEAM	IAN OXBORROW, MADELEINE CARDEN, MICHAEL CHEUNG, RYAN TURNER, TRISTAN SMITH, CHATHURA GALAPPATHTHI
EXAMINER	PRISCILLA KAN JOHN
TUTOR	ANDREA PARSONS

14. Operations and Support

Communications Plan (Found on team's landing page)

Regulatory Compliance

Regulatory compliance to be maintained and adhered to during the project

15. Responsibilities – Services Coordination

Team responsibilities

As set out in the team charter

Confidentiality

Project will be open source under the following licence https://opensource.org/licenses/MIT

Termination

SOW will terminate at end of specified time period or once an MVP has been delivered

16. Project Risks and Mitigation

ISSUE / RISK	MITIGATION / CONTINGENCY
Project team does not allow sufficient time to manage the expectations of the client	Mitigation: Stick to burndown chart and ensure team are on schedule Contingency: Reduce functionality of MVP to ensure it can be delivered by the end of semester
Project timelines and deliverables are not feasible within the timeframe given	Mitigation: Create a storyboard for discussion with client in first month of project to ensure deliverables are feasible Contingency: Keep open communication with the client to notify as early as possible about progress on project to extend project duration if needed
Project scope creep means that the deliverables are not what is agreed upon	Mitigation: Set clear scope in first month of project, signed off by all parties Contingency: Fall back on documentation providing scope to prove agreed functionality to client
Cost for the development platform is not free	Mitigation: Requirements to be identified in the first month of the project to allow time for needed actions/decisions Contingency: Cost will be investigated and assessed. The matter will then be discussed with the client to decide whether to include that aspect of the project or not.

Sensor Interfaces not open for accessing/recording or special permissions required by the OS companies (Apple, Google)	Sensor accessibility requirements to be identified in the first month of the project to allow time for needed actions/decisions. If permissions are needed for certain sensors, the process, time and cost will be investigated and assessed. The matter will then be discussed with the client to decide whether to include those sensors or not.

Execution of Statement of Work

Execution by Client

Date 09/03/2021

EXECUTED for and on behalf of:

Dr Eleni Daskalaki

In the presence of:

Signature of witness

CHIRATH HETTIARACHCHI

Name of witness (block letters)

Execution by Students

Date 09/03/2021

EXECUTED for and on behalf of:

Ian Oxborrow

Madeleine Carden

King Ho Cheung

Ryan Turner

Tristan Smith

Chathura Galappaththi