The University of Birmingham
School of Computer Science

First Semester Mini-Project: Declaration

1. Project Details

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Mini-project title: *Designing Location Based Context-Aware Systems: Approach, Models and Implementations.*

Mini-project supervisor: Professor Russell Beale

2. Project Description

The following questions should be answered in conjunction with a reading of your programme handbook.

Aim of mini-project	*To understand the various aspects involved in designing and implementation of location based context-aware systems.*

Objectives to be achieved	*Understanding in-depth the concept of context-aware systems.* *Understanding the emergence and the need for location based context-aware systems.* *Study of the anatomy of location based context aware systems.* *Various models for storing of information and their comparison.* *Recognition of the context and processing of the information.* *Adaption of the systems based on user's preferences.* *Privacy and security concerns* *Review of the existing systems that implement location based context awareness.* *Possible future applications of these systems system.* *A practical implementation based on the conclusion of the review in a location aware transport centric application.*

Project management skills Briefly explain how you will devise a management plan to allow your supervisor to evaluate your progress	The project involves a significant amount of literature work. In the initial 4 weeks of the provided time period I would be reviewing the available literature to systematically analyse the systems and their implementations to draw comparison between approaches and draw conclusions. I would spend the next 3 weeks in development of the practical implementation based on the research and its conclusion. The last couple of weeks would be spent in formulating and finalisation of the report. To Summarise the plan. • **Week 1-4:** Study of the available literature work available. • **Week 5:** Creating the first draft of the report along with comparisons. • **Week 6-9:** Development of a practical implementation of a location based context aware system. • **Week 9 Onwards:** Formulating and finalising a report.

Systematic literature skills Briefly explain how you will find previous relevant work	The primary source of the previously done relevant work would be through the library and the online research/conference paper archives. Further information would also be gained by interacting with the various people working in the related fields.

Communication skills What communication skills will you practise during this mini-project?	A bi-weekly meeting with the mini-project supervisor to discuss and update the progress of the project with intermediate updates through email. Email would be used as a primary means to contact the supervisor in case of any requirement of assistance.

Karthikeya Udupa K M
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