**Point to Point Direction**

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Originality avowal

I verify that I am the sole author of this report, except where explicitly stated to the contrary.

**Abstract**

The application solves the problem of providing point to point direction within a given map. The application takes a map as input parameter and uses A\* shortest Path algorithm to calculate both the distances and direction of the shortest path, it also returns the directions as an List. User can use the application for any purposes of finding a route between two point.

I would like say Thank You for my supervisor Odinaldo Rodrigues, who has been very supportive and provided me with constant feedback for my project.

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**Introduction**

The goal of this project is to investigate and implement algorithm that can provide an point to point direction from given source to an destination. Intuitively, one can think of the application as indoor GPS system. Despite the fact Indoor GPS System has always been rare compare to Outdoor GPS, the development of it

can bring many benefits to users.

Part of the motivation for this application is new students are use it to find their way around campus. This is especially important given that there are no app within King’s College London that can provide user with point-point direction within any building.

The core of this application revolves around solving 3 subProblems:

1:

**Background**

**Body**

**Evaluation**

**Legal, Social, Ethical and Professional Issues**

**Conclusions and Future Work**