**A PROJECT REPORT ON**

**TOWARDS A SECURE TRAVEL ASSISTANCE DEVICE FOR GPS/GPRS ENABLED**

**MOBILE USERS TO AID TRANSIT RIDERS WITH SPECIAL NEEDS.**

SUBMITTED TO THE UNIVERSITY OF PUNE, PUNE

IN THE PARTIAL FULFILLMENT OF THE REQUIREMENTS

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OF

**BACHELOR OF ENGINEERING (COMPUTER ENGINEERING)**

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**CERTIFICATE**

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**Mobile Users to Aid Transit Riders with Special Needs.”**

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This project work has not been earlier submitted to any other Institute or University for the award of any degree.

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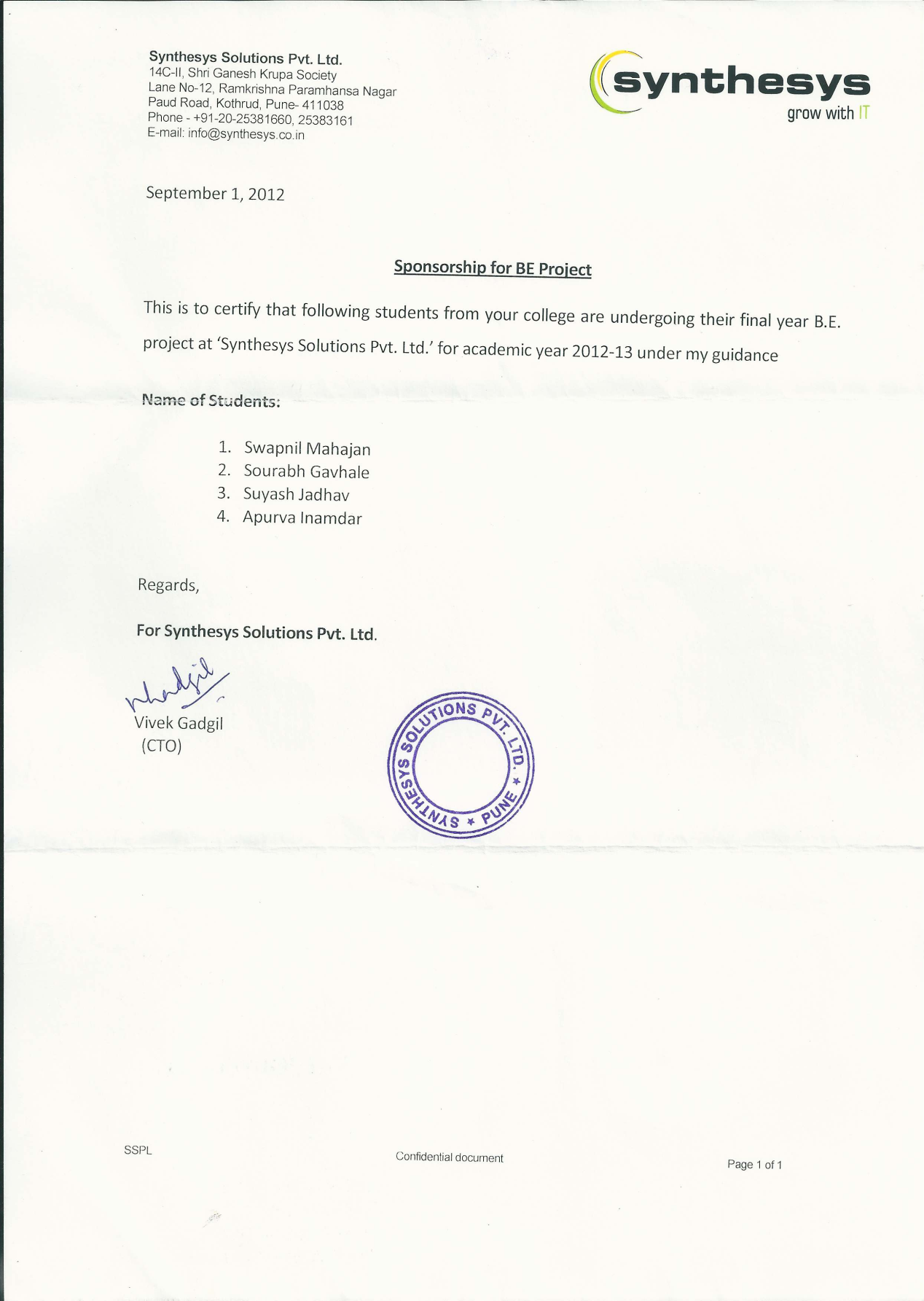
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**ABSTRACT**

As urban living environment is becoming more e and more complex, the road condition is becoming worse because of heavy traffic, tremendous increase in accidents and most importantly the security issues that have been raised by recent incidences. To solve such problem with respect to school going children, school bus tracking system has been developed. A school bus tracking system determines the position of the bus with a GPS/GPRS enabled cell phone and displays the position on a Google map.

School Bus tracking technology meets the security expectations of parents of school going children by providing features as Alert messages, various Notifications and Conformance of Attendance of the child on the bus.

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**LIST OF ABBREVATIONS**

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| **Abbreviation** | **Illustration** |
|  |  |
| GCM | Google Cloud Messaging |
| QR code | Quick Response Code |
| HTTP | Hyper Text Transfer Protocol |
| GPS | Global Positioning System |
| GPRS | General Packet Radio Service |
| DBA | Database Administrator |
| O.S. | Operating System |
| API | Application Programming Interface |

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