Attendance System

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Final Year Project

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About this project

Abstract Attendance System is a mobile / Web application designed for colleges and third level institutes to be used in order to mark attendance of their students. The application allows teachers to be able to mark attendance during class by using their phone. With this application teachers and lecturers across all colleges will be able to monitor their students attendance and generate statistics based on each students attendance in class.

Authors Each team member was given a task to do over the development period of the project. Adrian Sypos - https://github.com/sarlianth - Was responsible for the android application as well as certain parts of the Web application

Adrian Golias - https://github.com/snow246 - Was responsible for the development of the Web application.

Robert Kiliszewski - https://github.com/robertkiliszewski - Was responsible for the development of the Web application

Each team member equally contributed towards the read me as well as the dissertation.

Introduction

We have seen over the years that the process of manual attendance has been carried out across almost all educational institutions. The process is not only time consuming but also sometimes inefficient resulting in the false marking of attendance. Today, we need not maintain pen and paper based attendance registers. Following this thought, we have proposed an attendance monitoring system based on the concept of web services which is implemented as an Android mobile application that communicates with the database residing on a remote server.

The mobile application would require connecting to the database using either General Packet Radio Service(GPRS) or Wi-Fi technology. Our project is an efficient and user friendly Android mobile application for an Attendance Monitoring. The application will be installed on the user's (in this case teacher's) smart phone. It intends to provide an interface to the teacher who will require minimal details to input for marking of attendance of a particular class of students. Apart from that, the application would support strong user authentication and quick transmission of data via the web service.

Lecturers will login to the phone application and get connected to the server. After login, they will take attendance using mobile phone.

Make sure you use references [1]

Context

- Provide a context for your project.
- Set out the objectives of the project
- Briefly list each chapter / section and provide a 1-2 line description of what each section contains.
- List the resource URL (GitHub address) for the project and provide a brief list of the main elements at the URL.

2.1 Filler

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Methodology

About one to two pages. Describe the way you went about your project:

- Agile / incremental and iterative approach to development. Planning, meetings.
- What about validation and testing? Junit or some other framework.
- If team based, did you use GitHub during the development process.
- Selection criteria for algorithms, languages, platforms and technologies.

Check out the nice graphs in Figure 3.2, and the nice diagram in Figure ??.



Figure 3.1: Nice pictures



Figure 3.2: Nice pictures

Technology Review

About seven to ten pages.

- Describe each of the technologies you used at a conceptual level. Standards, Database Model (e.g. MongoDB, CouchDB), XMl, WSDL, JSON, JAXP.
- Use references (IEEE format, e.g. [1]), Books, Papers, URLs (timestamp) sources should be authoritative.

4.1 XML

Here's some nicely formatted XML:

```
<this>
    <looks lookswhat="good">
        Good
        </looks>
</this>
```

System Design

As many pages as needed.

• Architecture, UML etc. An overview of the different components of the system. Diagrams etc. . . Screen shots etc.

Column 1 Column 2

Rows 2.1 Row 2.2

Table 5.1: A table.

System Evaluation

As many pages as needed.

- Prove that your software is robust. How? Testing etc.
- Use performance benchmarks (space and time) if algorithmic.
- Measure the outcomes / outputs of your system / software against the objectives from the Introduction.
- Highlight any limitations or opportuni-ties in your approach or technologies used.

Conclusion

About three pages.

- Briefly summarise your context and ob-jectives (a few lines).
- Highlight your findings from the evaluation section / chapter and any opportunities identified.

Bibliography

[1] A. Einstein, "Zur Elektrodynamik bewegter Körper. (German) [On the electrodynamics of moving bodies]," *Annalen der Physik*, vol. 322, no. 10, pp. 891–921, 1905.