

# Learning Explorer

HONG KONG



Ting Siu Lun, Jacky and Lee Yat Hei, Gabriel  
Team Name: Masters • Mentor: Dr S. K. Kwok

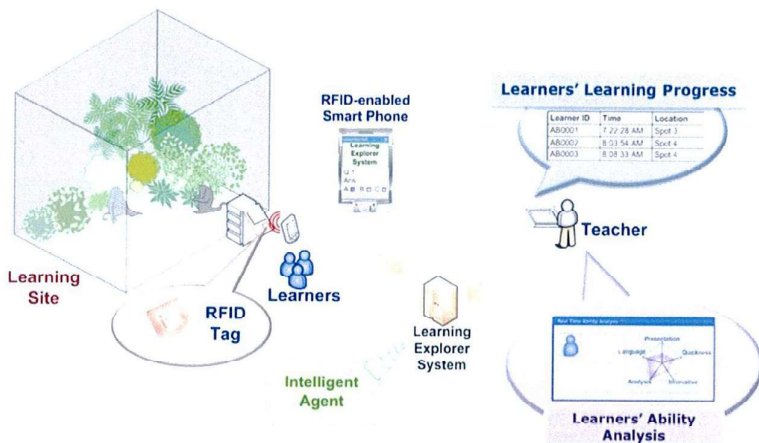
## Learning Explorer makes learning easy and fun!

### Executive Summary

Masters is the team dedicated to develop a suite of software product - Learning Explorer - to all the teachers and learners, especially those who always participate in field trips and outdoor activities like primary school students. Learning Explorer is designed for everyone to reach and explore learning at anytime and in anywhere by means of mobile devices like smart phones and Ultra-mobile PC (UMPC).

Thanks to Microsoft technology, learners can simply employ Bluetooth-enabled smart phones with Radio Frequency IDentification (RFID) reader to read the tagged-object's information in anywhere (e.g. Ocean Park, Wetland Park, Hong Kong Science Museum) to construct a highly interactive learning environment for ubiquitous learning. Additionally, teachers can perform better learning management (e.g. monitoring and controlling the real-time status/behaviors of learners during the learning activities) and achieve better learning progress of each learner for analysis.

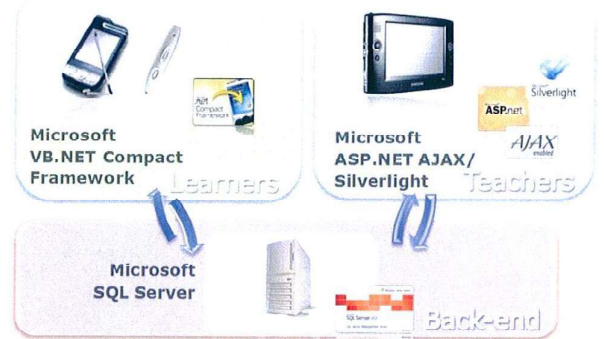
### System Architecture



### Technical Content

Learning Explorer is a software product that integrates .NET technology, RFID technology and mobile technology to build a ubiquitous learning environment (i.e. learn at anytime and in anywhere) and provide a comprehensive learning solution to learners and teachers.

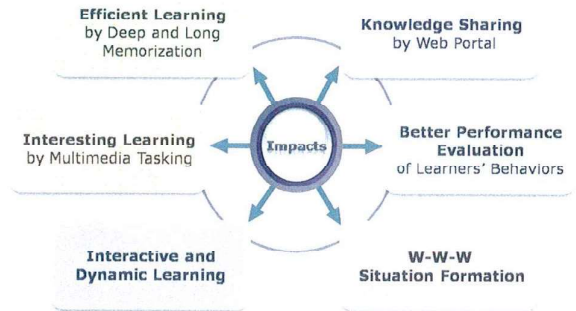
### Technical Content



### Educational Impacts

Learning Explorer is unique. It allows learners to access in anywhere at anytime and it also supports personalized learning. In addition, it can be used to enrich, enliven and add variety to the traditional learning by embedding the mobile technology. Follows are some significant impacts explored by Learning Explorer:

### Educational Impacts



### Contact Details

Department of Industrial and Systems Engineering  
The Hong Kong Polytechnic University

Ting Siu Lun, Jacky Email: 07900139r@polyu.edu.hk  
Lee Yat Hei, Gabriel Email: 06414072g@polyu.edu.hk