

# Institute for Information Industry

*Institute for Information Industry (III) is the largest information and communication technology development organisation in Taiwan. It has been a source of vision, innovation and technological excellence, and it is a major contributor in Taiwan's development into a significant player in the global ICT industry.*

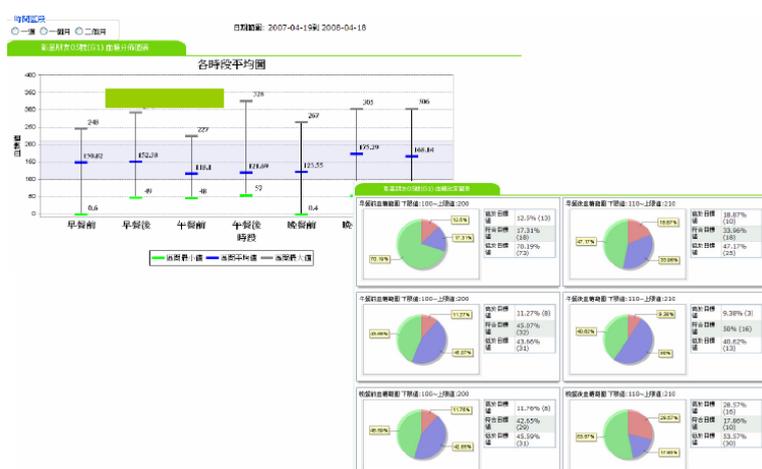
## ABOUT III

III is a major contributor in the promotion of full ICT technology utilization, advancing the establishment of a modern information society in Taiwan. III has injected its technology into cross disciplinary environments including government sectors, health organisations, banks, universities and others.

*“ZK is currently the most intact Ajax RIA web application framework available in the industry, providing high level integration and support.”*

## THE PROJECT

The purpose of this project is to research and develop the Personal Health Assistant, PHA as an e-Diabetes remote and mobile care service focusing on providing “automatic”, “active” and “interactive” personal healthcare functions in order to reduce the sudden incidents of diabetes such as hyperglycaemia or hypoglycaemia.



## CLOUD BASED MEDICAL SOLUTION

The e-Diabetes Remote and Mobile Service Platform is developed to implement remote and mobile intelligent personal health tracking with analysis and recommendation services. The system provides dynamic driving service event, real-time and concrete diagnosis analysis, and healthcare message notices in accordance to

*“ZK effectively reduces development time by 1/2.”*



patients’ situations resulting in better self care of patients as well as increasing the healthcare coverage of healthcare organisations.

The system also support functionalities such as risk analysis, chart analysis, auto weekly and monthly reports, remote care side, personalised dynamic care, complex computing and personalised analysis etc. In terms of domain modules, not only does it provide diabetes-related modules but also other chronic diseases including stroke, respiratory diseases, diet management, haematology management, elderly care management etc.

With all these advanced features, the user interface of PHA is still user friendly, robust and efficient whilst providing high levels of security.

## WHY ZK

The user interface of the system is built using ZK as a base, integrating Spring and Hibernate. During the evaluation, ZK, GWT, jQuery, EXT JS and RichFaces were considered. In the end, ZK was chosen for its integrality as an Ajax solution with defined MVC (model-view-controller) architecture making it easy to use with low entry barrier. Additionally, ZK offers more than 200 enterprise-ready components enabling an increase in productivity whilst also providing robustness and high levels of security through its server-centric programming model.

## THE RESULT

This management platform is now implemented in numerous leading public and private hospitals including Chang Gung Medical Foundation, enabling clinical intelligence and effective glucose level control for diabetics.

### About ZK

Potix Corporation develops and supports ZK, the #1 Ajax solution on SourceForge.net, the world's largest open source host. ZK has more than 1,500,000 downloads since its first release in late 2005. ZK is deployed by a large number of Fortune Global 500 companies, including Deutsche Bank, Barclays, Sony, Sun Microsystems and Toyota, providing them with the ability to rapidly create rich Ajax enterprise level applications.

### Contact us

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