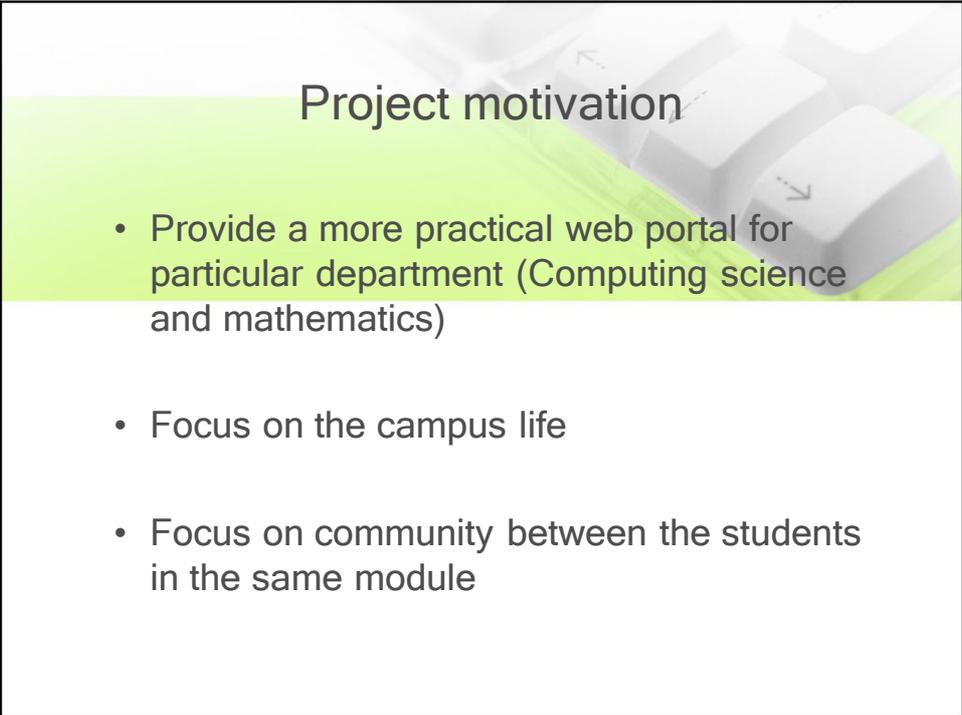




Department Communicate Web Portal Implementation

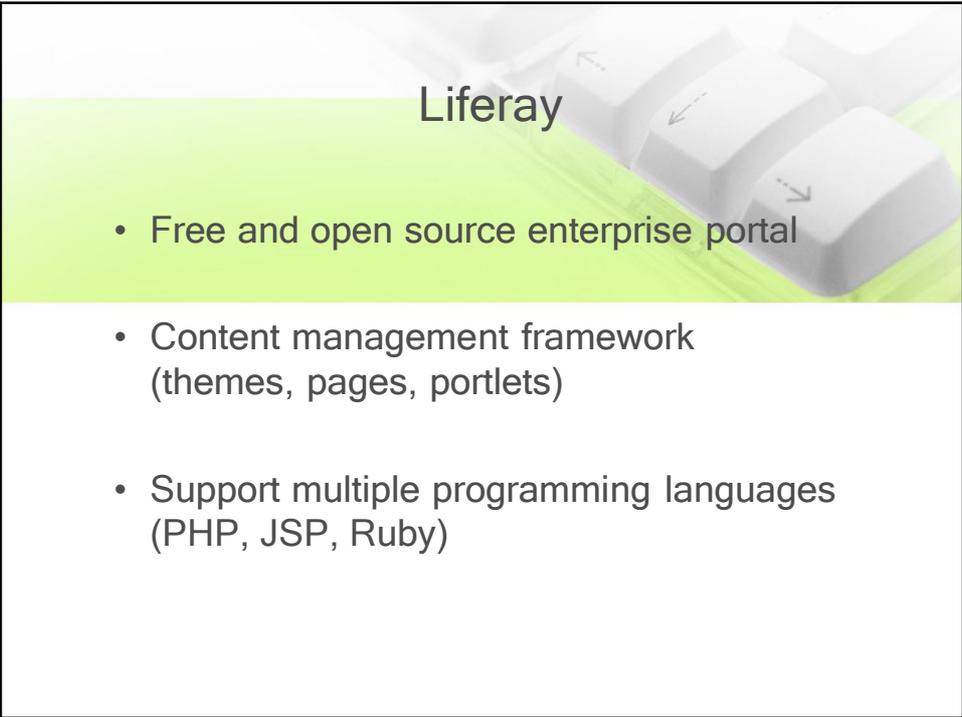
MSc Dissertation Project
Haoyu Ji

Supervisor : Dr Simon Jones



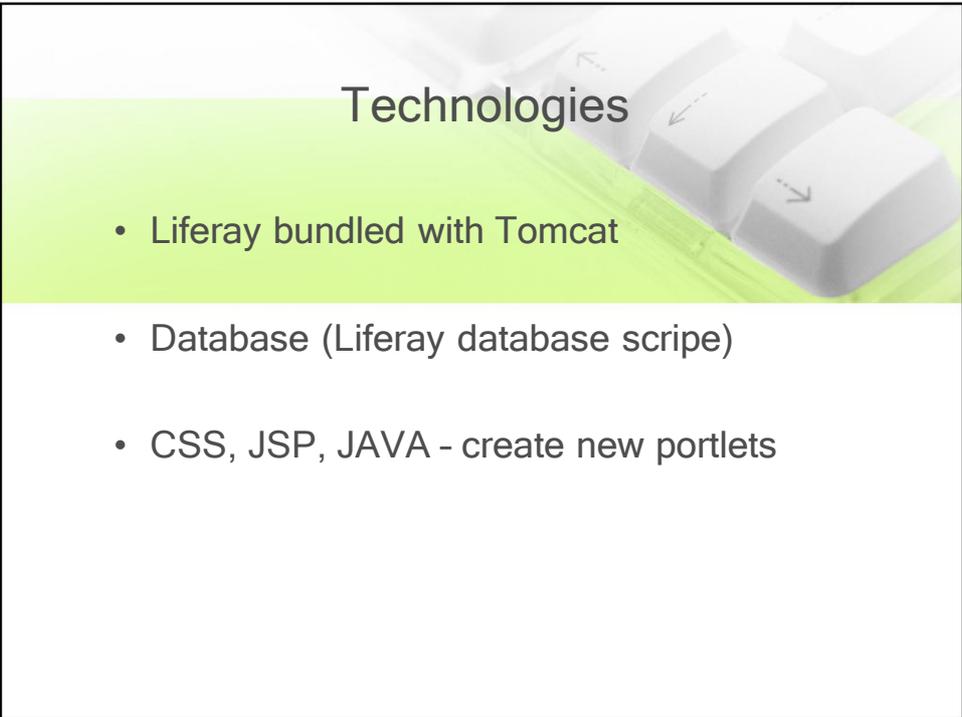
Project motivation

- Provide a more practical web portal for particular department (Computing science and mathematics)
- Focus on the campus life
- Focus on community between the students in the same module



Liferay

- Free and open source enterprise portal
- Content management framework (themes, pages, portlets)
- Support multiple programming languages (PHP, JSP, Ruby)



Technologies

- Liferay bundled with Tomcat
- Database (Liferay database scribe)
- CSS, JSP, JAVA - create new portlets

Project background

The screenshot displays a user interface for a university portal. At the top, there are buttons for 'Add Panel' and 'Personalise Page'. Below this, the interface is divided into several sections:

- System Notifications:** A red banner announcing a 'Succeed downtime 2/3 August. Full details: <http://blogs.stir.ac.uk/snews/?p=3181>'.
- My Courses:** A list of courses where the user is a student, including 'BSMP28 - Project Management Fundamentals (1213)', 'Career Development Centre', 'ITNP1B - Networking (Spring 13)', 'ITNP2B - Communications Systems and Services (Spring 13)', and 'ITNP90 - Object Oriented Software Design (Spring 13)'. Each entry lists the instructor's name.
- StirGate:** A search bar for electronic library resources with the text 'Search multiple electronic library resources simultaneously' and a search button.
- Resource Lists:** A list of resource lists, including 'ITNP1B - Networking (1 section, 5 items)' and 'ITNP2B - Communications Systems and Services (1 section, 6 items)'. A 'Help' button is visible.
- Tools:** A menu of tools including 'Calendar', 'My Grades', 'Send Email', 'Tasks', 'Goals', and 'Campus Pack'.

Portal structure

- Department public site
- Modules' public sites
- Site member's' public pages

The screenshot shows the LIFERAY portal structure. At the top left is the LIFERAY logo with the tagline 'Supporting Open Source For All'. On the top right, there are navigation links for 'Welcome', 'Module', and 'My Site'. Below the navigation is a login form with fields for 'Email Address' (containing '@liferay.com') and 'Password', a 'Remember Me' checkbox, and a 'Sign In' button. There are also links for 'Create Account' and 'Forgot Password'. Below the login form is a news item: 'Yesterday Haoyu Ji wrote a new message board post, ITNP1A, in ITNP1A'. At the bottom, there is a welcome message: 'Welcome to Computing Science and Mathematics, School of Natural Sciences, University of Stirling, Scotland.' The background of the page features a photograph of students working at computers in a classroom.

Screenshots

The screenshot shows a Liferay website page with a red header. The page title is "Computing Science Course Modules". Below the title, there are navigation links: "Undergraduate | Honours Half-Modules | Personal Development | Postgraduate". The page is divided into two sections: "Autumn Modules" and "Spring Modules".

Autumn Modules

- CSC9A1 - Introduction to Computing Science
- CSC9B1 - Essential Skills for the Information Age
- CSC9A3 - Computing Science III: Objects and Information Systems
- CSC9N5 - Multimedia and Human-Computer Interaction
- CSC9P5 - Software Engineering I
- CSC9Q5 - Database Principles and Applications
- CSC9V7 - Concurrent and Distributed Systems

Spring Modules

- CSC9A2 - Programming and User Interface Design
- CSC9B2 - Making the Most of the World Wide Web
- CSC9T4 - Managing Information
- CSC9V4 - Systems I
- CSC9Y4 - Programming Language Paradigms
- CSC9N6 - Computer Game Technologies
- CSC9P6 - Software Engineering II

Screenshots

The screenshot shows a Liferay website page with a green header. The page title is "ITNP1A". Below the title, there are navigation links: "Home | Content | Forum". The page features a "Calendar" widget showing the date "Wednesday 31/07/13". The calendar is in "Summary" view and shows a grid of dates for the month of July. A message box indicates "There are no events on this day.".

Calendar

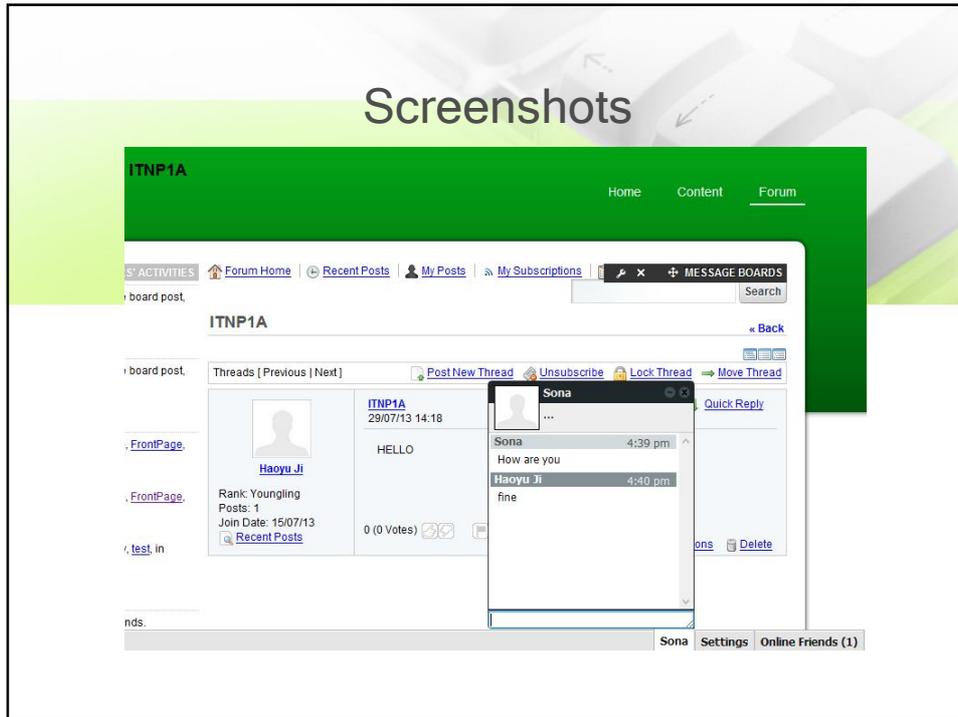
Summary Day Week Month Year Events Export/Import

Wednesday 31/07/13

M	T	W	T	F	S	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	1	2	3	4

There are no events on this day.

Screenshots



Portal roles

- Portal administrator: keep whole rights to control the entire portal
- Site administrator(teacher): control the relevant module only
- Site member (student): access all the module's contents
- Guest: limited information from module sites

Project status

- Group online chat
- Re-design some of the pages' contents
- User interface improve
- Collect some users' suggestions

Thank you

Question