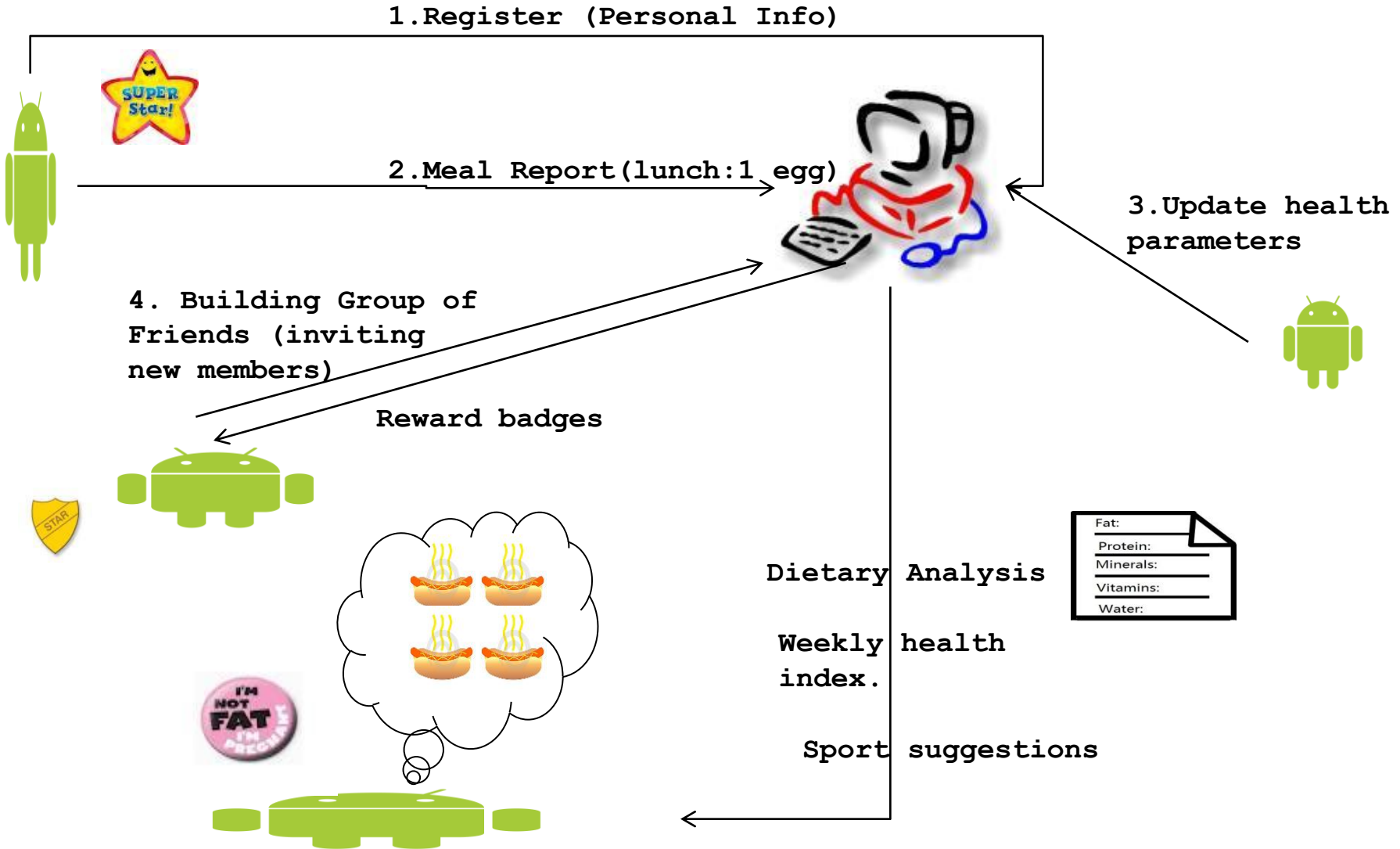


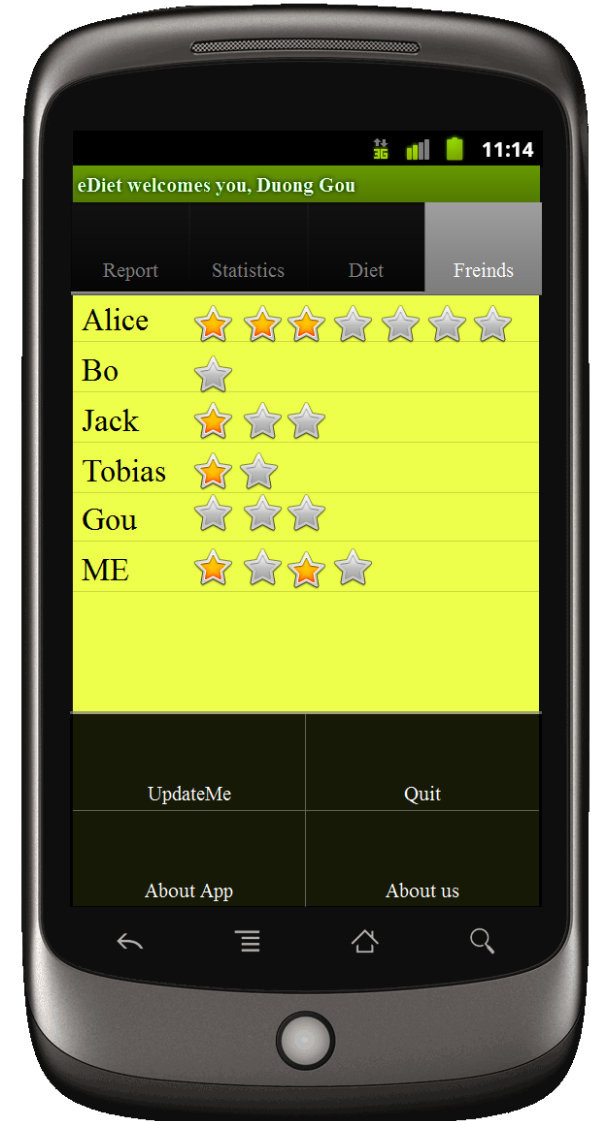
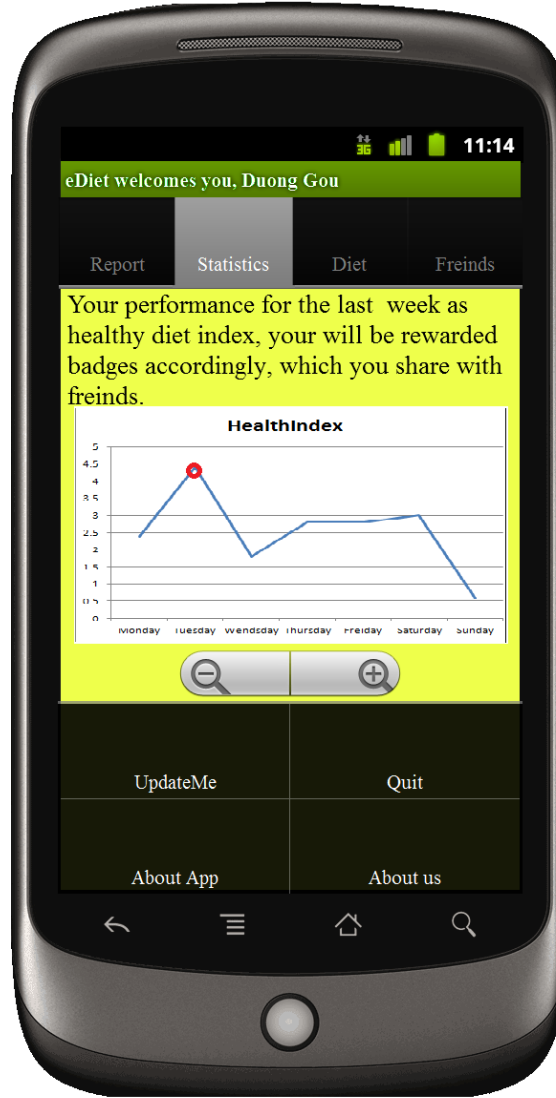
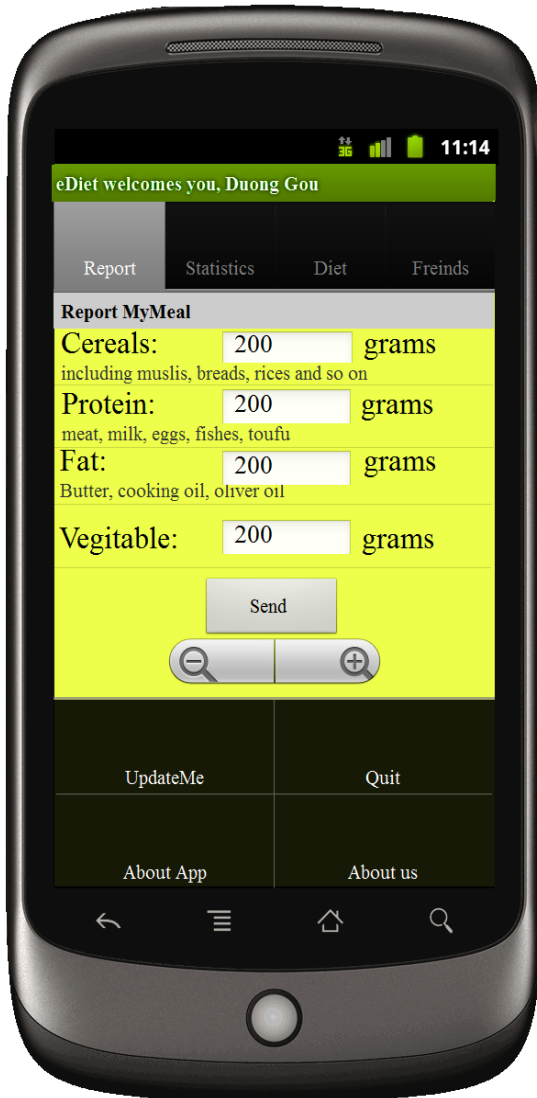


# Application Development for Mobile and Ubiquitous Computing

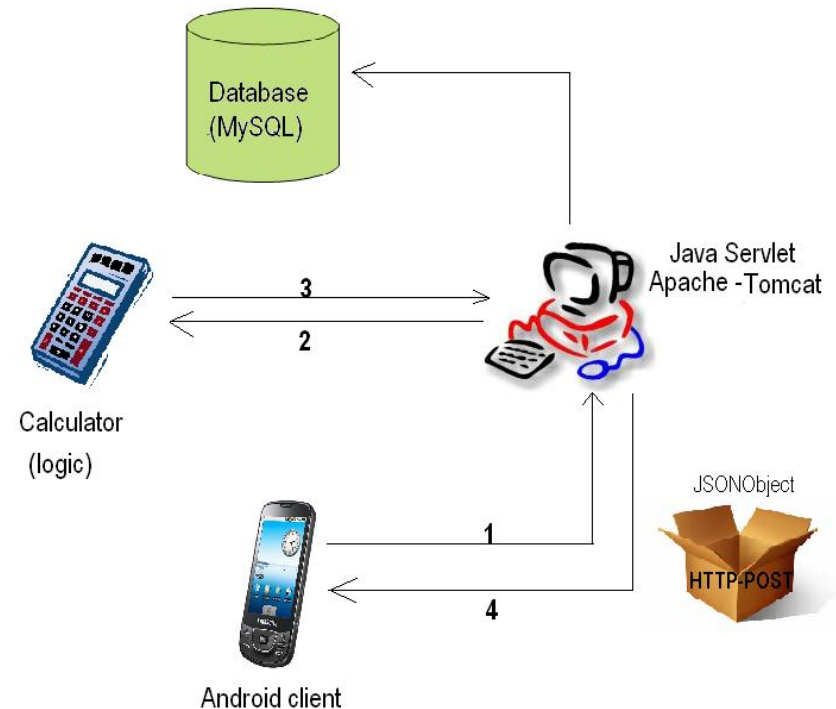
## Seminar Task: e-Diet Second Presentation

GroupNo.18  
Team:  
Duong Pham  
Xiaolong Gou

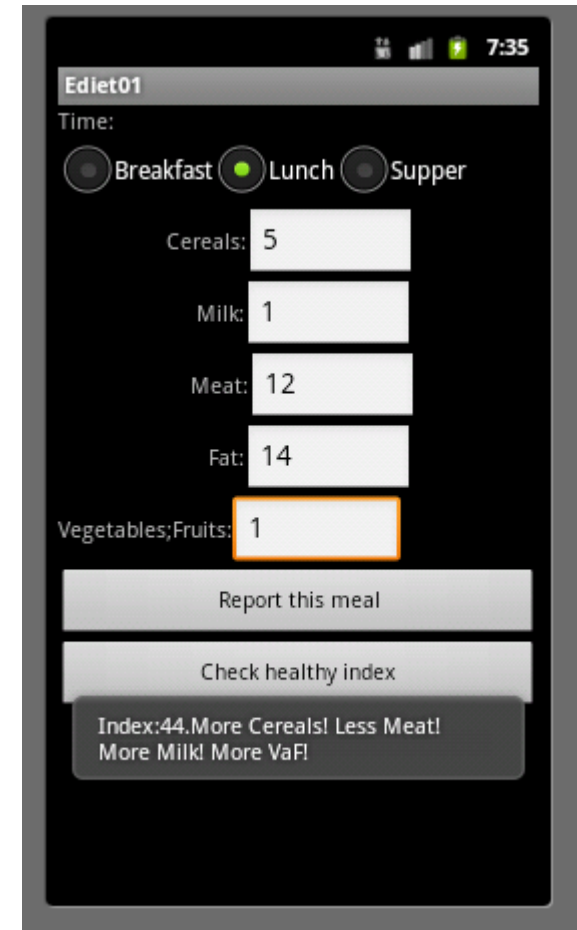
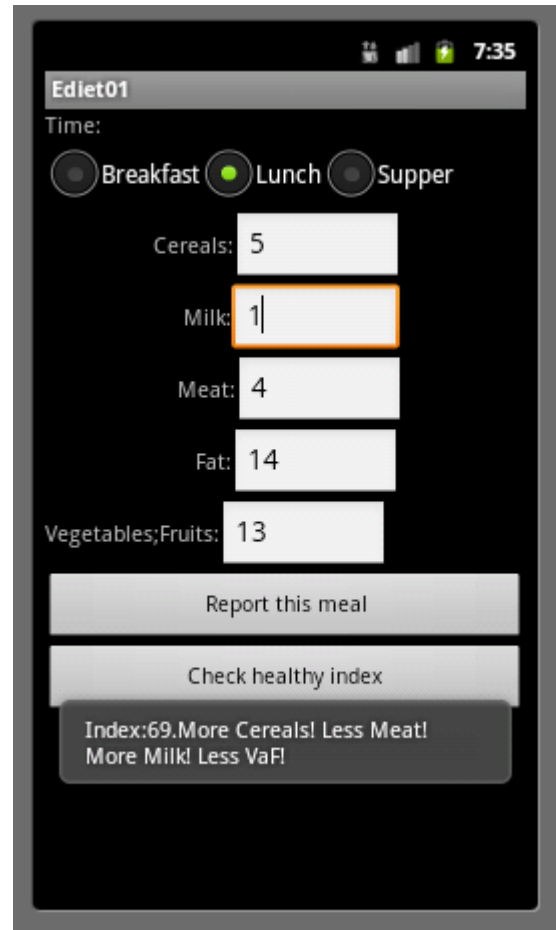
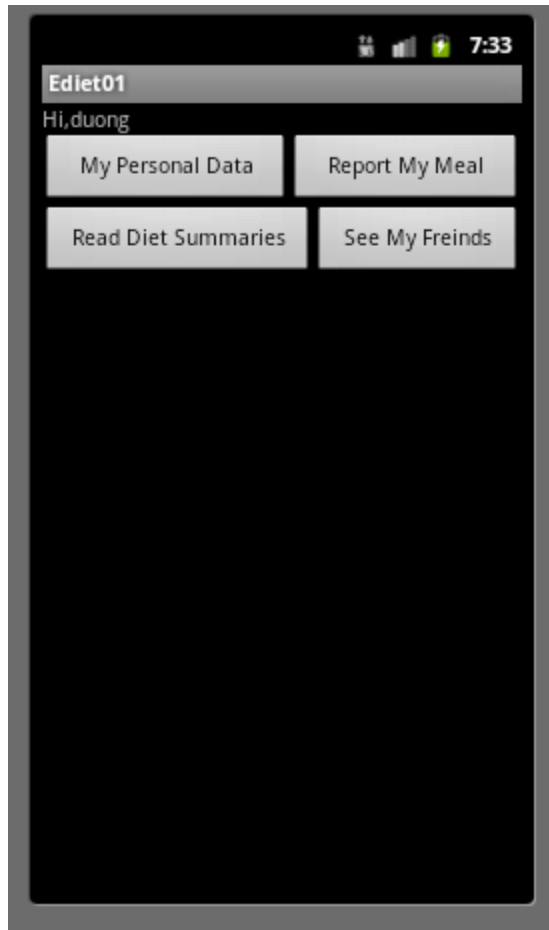




- Technologies and tools we adopted:
  - Server: Java servlet
  - Client: Android
  - Data exchange: JSON
  - Communication between client and server: HTTP
  - Database: MySQL
- Architecture and technologies







- The challenges of mobile computing:
  - Calculation the Healthy Eating Index (HEI)

Table 1. Components of the Healthy Eating Index

Component	Range of score	Criteria for perfect score of 10 <sup>a</sup>	Criteria for minimum score of 0
<b>Food group</b>			
1. Grains	0 to 10	6-11 servings <sup>b</sup>	0 servings
2. <u>Vegetables</u>	0 to 10	3-5 servings <sup>b</sup>	0 servings
3. <u>Fruits</u>	0 to 10	2-4 servings <sup>b</sup>	0 servings
4. Milk	0 to 10	2 to 3 servings <sup>b,c</sup>	0 servings
5. Meat	0 to 10	2 to 3 servings <sup>b</sup>	0 servings
<b>Dietary guidelines</b>			
6. Total fat	0 to 10	30% or less energy from fat	45% or greater energy from fat
7. Saturated fat	0 to 10	Less than 10% energy from saturated fat	15% or greater energy from saturated fat
8. <u>Cholesterol</u>	0 to 10	Less than 300 mg	Greater than or equal to 450 mg
9. Sodium	0 to 10	Less than 2,400 mg	Greater than or equal to 4,800 mg
10. Variety	0 to 10	16 different kinds of food items over 3-day period	6 or fewer food items over a 3-day period

*The Healthy Eating Index: Design and Applications*

- The challenges of mobile computing:
  - User satisfaction
  
- How to solve it:
  - Improve the UI by adding animation to the views
  - Use mapviewballons for Android map
  - Provide some android patterns with GreenDroid
  - Check the available third party libs



- Complete the functionalities on 15/01/2012
- Improve UI
- Testing before the final presentation 27/01/2012
- You should submit the final results before 03/02/2012
- Getting an appointment to show the running application later