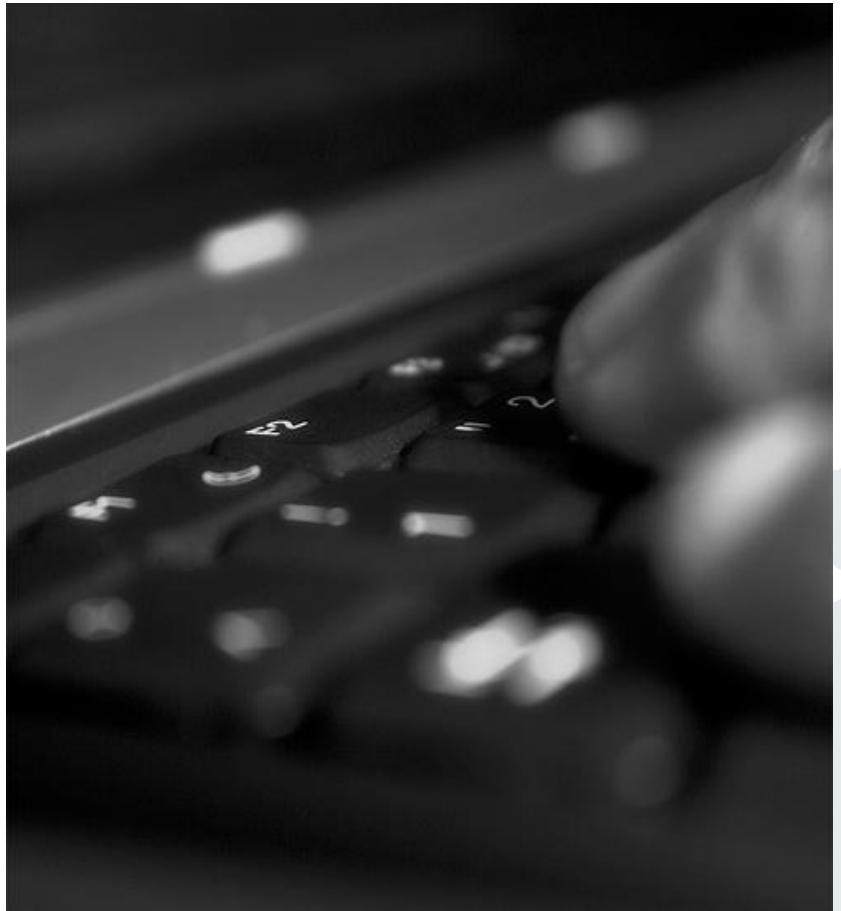




Mentorium 4  
Business Informatics 2 (PWIN)

Development of  
Information Systems  
SS 2011



Dr. Andreas Albers  
[www.m-chair.net](http://www.m-chair.net)



Jenser (Flickr.com)

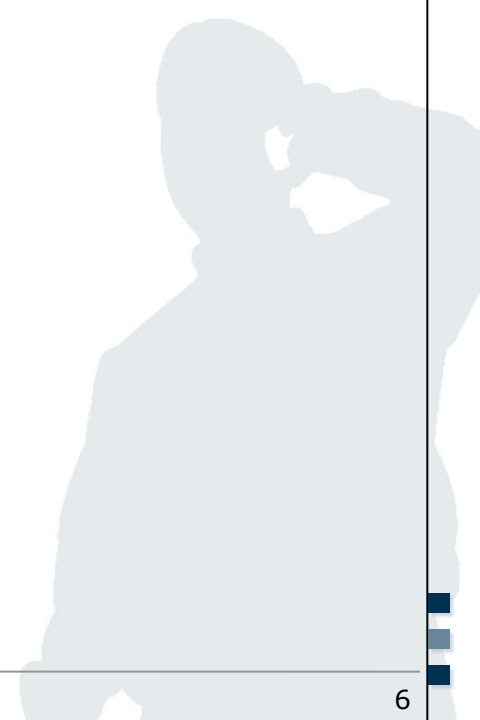
- Software Engineering
  - Object Orientation
  - UML
- 
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- Assume, you are working for the myPlace Service Provider and your product manager wants to allow user-generated “Places” and recommendations. So, you have been assigned as project manager for the development of the corresponding software upgrade.
- Create a Work Breakdown Structure
  - Breakdown the project into work packages (WP)
  - Roughly estimate the necessary effort for each WP
  - Assign responsibilities/resources to each WP
- Select an appropriate SE process model
- Develop a rudimentary project schedule.

- Software Engineering
  - Object Orientation
  - UML
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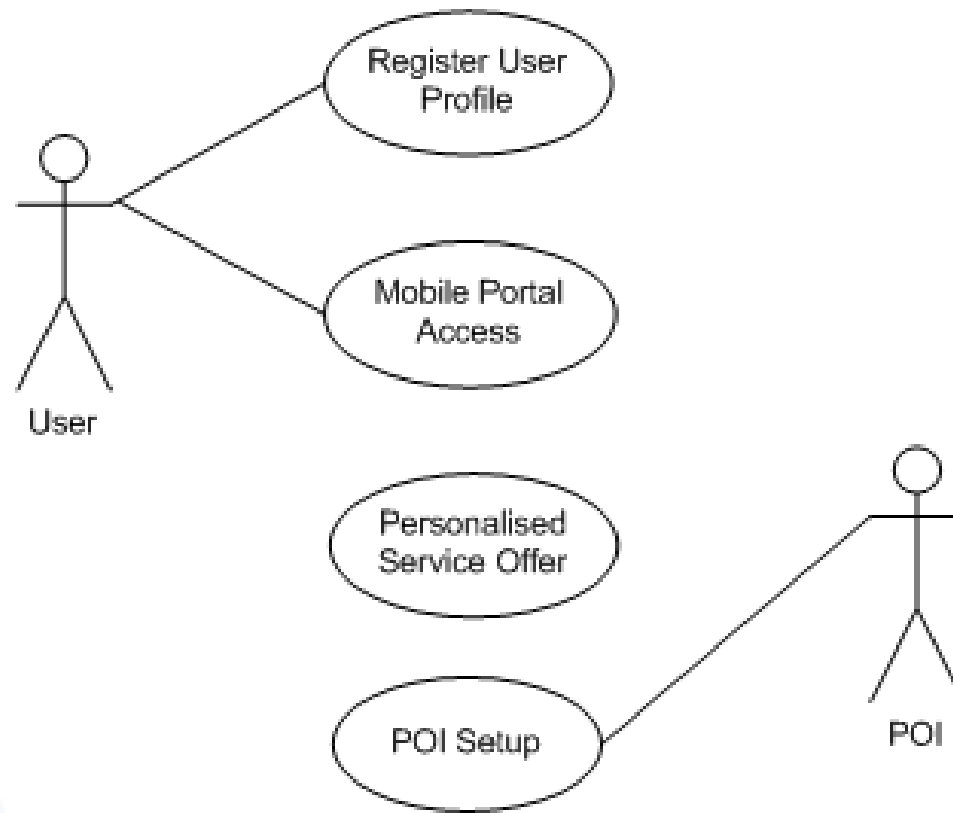
- a. What is the difference between Procedural and Object Oriented (OO) Software Paradigm?
- b. What are the benefits of Object-Oriented (OO) Software Development?
- c. What is the difference between a class and the instance of that class?
- d. Explain the principle of Inheritance using the a class “Point-of-Interest (POI)” of the MyPlace Service.
- e. Give an example for a Polymorphism in relation to the myPlace service.

- Software Engineering
- Object Orientation
- UML

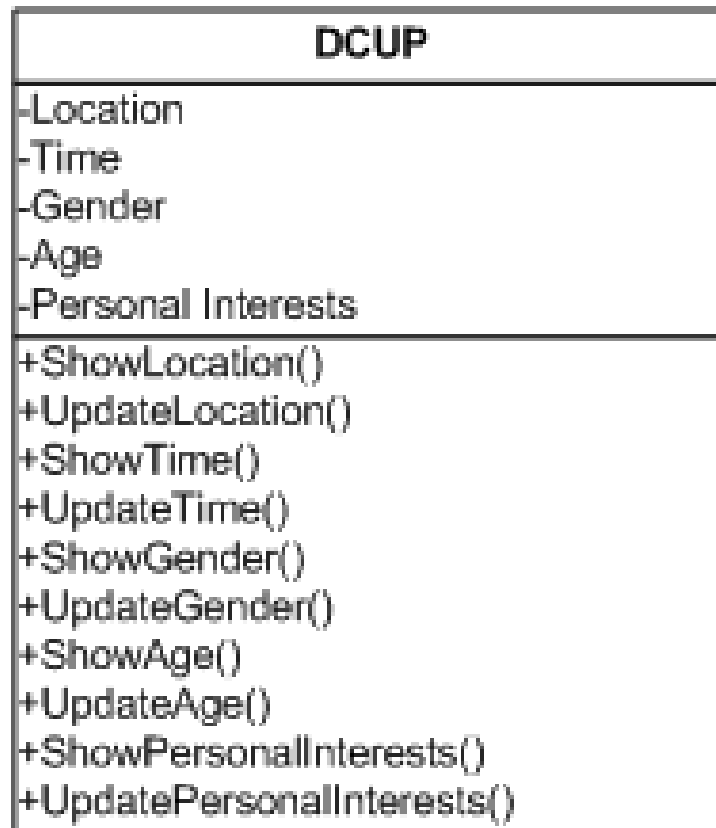


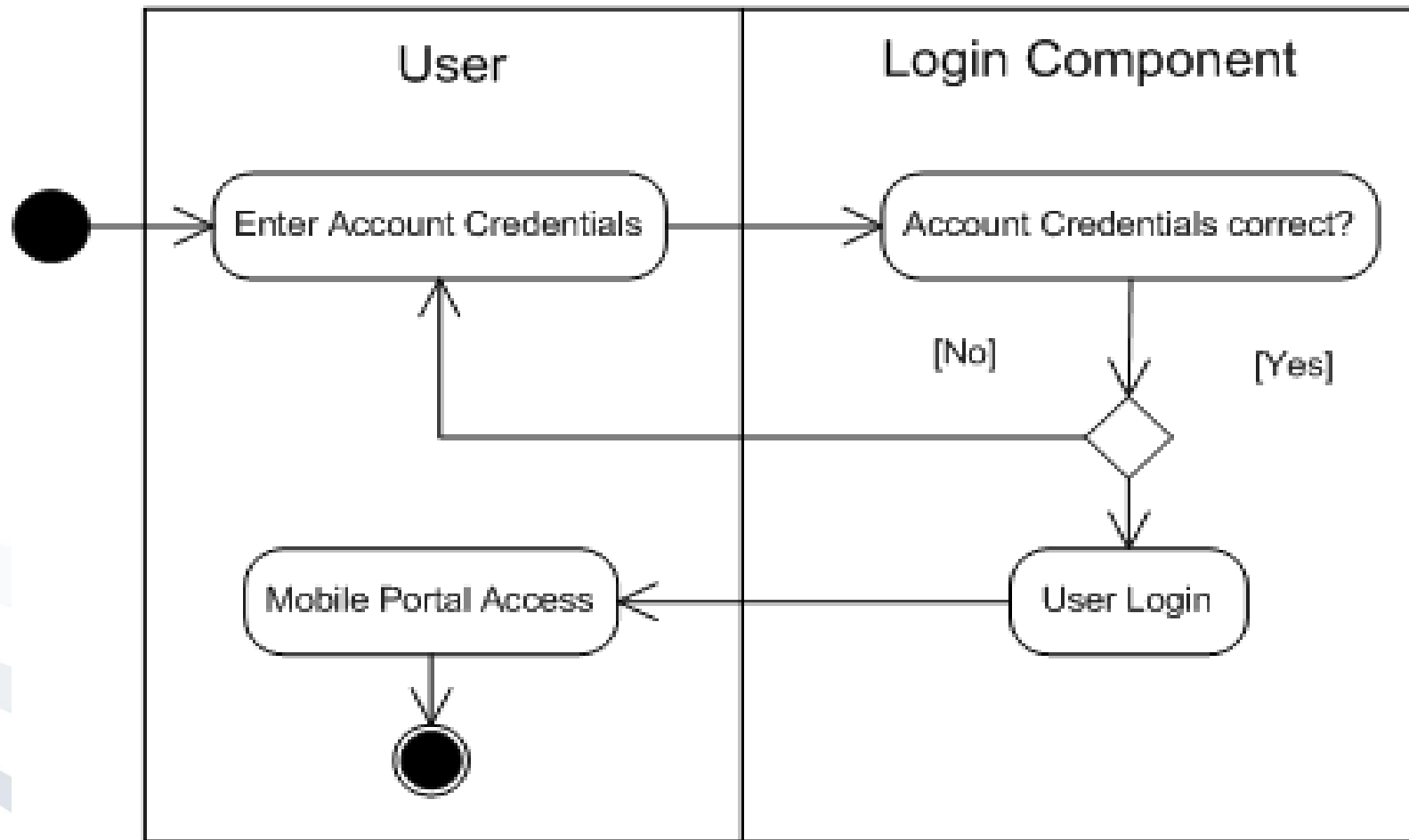
- a. What is the purpose of UML?
- b. How is Object Orientation related to UML?
- c. Explain the different views of UML and which diagrams UML offers in order to support them?
- d. What is the difference between static and dynamic models?
- e. Describe the high-level functionalities of the myPlace Service by using an appropriate UML diagram.
- f. Specify a class for a dynamic context-based user profile (DCUP) of the myPlace Service.
- g. You are one of the programmers of the myPlace Service.
  - a. Assume your manager wants you to model and document the Login process by using the appropriate UML diagram.
  - b. Assume your manager plans to integrate in addition the Facebook Login Functionality into the myPlace Service. Model the corresponding extended Login Process by using the appropriate UML diagram.

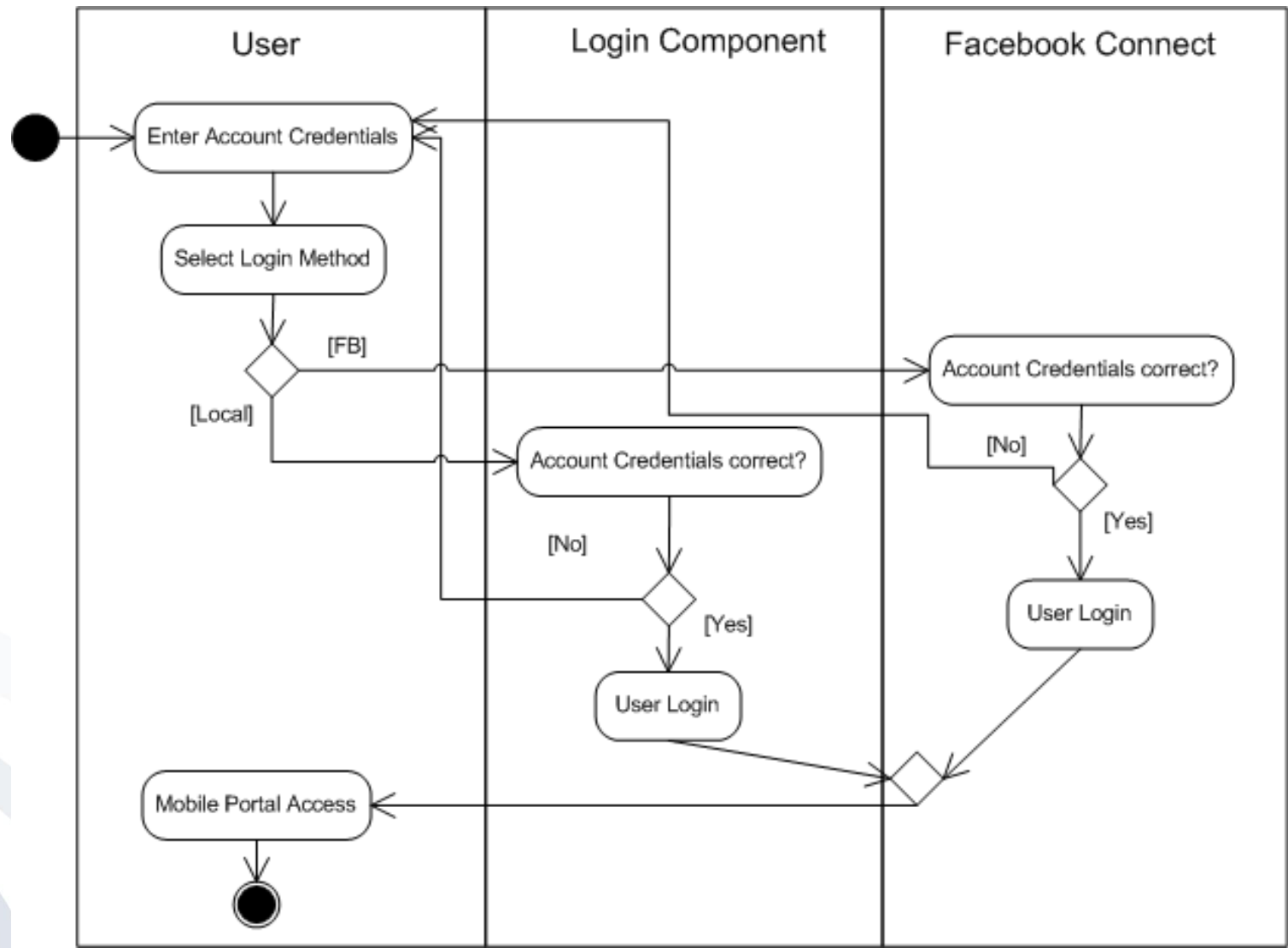
- Use Case Diagram



- UML Class Diagram







# Open Questions?

