Design Workflow

CSC 532
Louisiana Tech University

INTRODUCTION

• GOAL OF DESIGN WORKFLOW
• RESULTS
• DESIGN MODEL
• DEPLOYMENT MODEL
EXPANSIONS OF THE ANALYSIS MODEL

- MOSTLY PHYSICAL
- MORE DETAILED
- SHOWS THE DECISIONS

ARTIFACTS

- CLASS DESIGN
- USE CASE REALIZATION-DESIGN
- SUBSYSTEM DESIGN
- DESIGN MODEL
- DEPLOYMENT MODEL
CLASS DESIGN

- CONTAINS FULL SET OF ATTRIBUTES and perhaps with relationships
- EXPRESSED IN PROGRAMMING LANGUAGES
- ACTIVITY DIAGRAM
- STATECHART DIAGRAM

Example: class diagram

```
Superclass (parent)

Subclasses

GroundVehicle
weight
licenseNumber
register()

owner
0..*
1

Person

Car
size

Truck
tonnage
getTax()

Trailer

Generalization
```
Use Case Realization-Design

- Sequence diagram

- Collaboration diagram

Sequence DIAGRAM

Actor1

Home page

Login page

Account

login()  display()

enter user and password()  validate user login()  display()
COLLABORATION DIAGRAM

Artifacts Contd.

- Design subsystem
- Design model
- Deployment model
- Design package
WORKERS

- Architect
- Use case engineer
- Component engineer

ACTIVITIES

- Perform architectural design
- Design a use case
- Design a class
- Design a subsystem
Design Workflow Activities

- Perform Architectural Design
- Design a Module
- Design a Class
- Design a Subsystem

The diagram illustrates the workflow activities in design.