



# Project Development (SYP)

Peter Bauer

---

*Unit 1*

# Let's Talk Content – 1

---



# Content

---

- ❖ What are projects?
- ❖ Project start
- ❖ Project Communication
- ❖ Software Development Process Models
- ❖ System Specification
- ❖ Implementation
- ❖ Testing
- ❖ Releasing

# What Are Projects?

---

- ❖ Collaborative enterprise
- ❖ Carefully planned
- ❖ Temporary rather than permanent
- ❖ Accomplish particular tasks
- ❖ Time constraints



# Project Start

---

- ❖ Give basis for the management decision of project approval
- ❖ Describes
  - ❖ Necessity of project
  - ❖ Feasibility of project
  - ❖ Affordability of project
  - ❖ Market and economic effect of project

# Project Communication

---

- ❖ Project Organization
- ❖ Requirements Management
- ❖ Project Planning
- ❖ Configuration Management
- ❖ Quality Assurance
- ❖ Methods and Tools



# Software Development Process Models

---

- ❖ Waterfall model
- ❖ V-Model
- ❖ RUP
- ❖ Scrum
- ❖ Development Process Assessments

# Administrivia

---



# What Will We Do?

---

- ❖ Start developing a serious background in project development
- ❖ Develop a complete project
  - ❖ Plan (content, time line, effort, ...)
  - ❖ Implement (from requirements to tests)
  - ❖ Monitor the project's progress
- ❖ Have fun while doing serious work

# How Is The Course Organized?

---

- ❖ Theoretical background
  - ❖ Selected parts of the book
- ❖ Practical exercises
  - ❖ By means of smaller examples
  - ❖ By means of your project



# How To Get A Grade – Main Contributions

---

- ❖ One test per semester
  - ❖ Date: ????
- ❖ Review of project deliverables
  - ❖ Project proposal
  - ❖ Effort estimations
  - ❖ Prototype
  - ❖ Reports

# Teams

---

- ❖ 2 to 3 persons max.
- ❖ Find a topic
- ❖ Assign roles
  - ❖ Dependent on your process model
  - ❖ Based on your primary skills



# Communication

---

- ❖ Moodle
  - ❖ General announcements
  - ❖ Communication about tasks and assignments
  - ❖ Enroll
    - ❖ Course name: III\_SYP 3AHIF Bauer 1516
    - ❖ Enrolment Key: DasIstSYPER
- ❖ Skype / e-mail (Bauepete / p.bauer@htl-leonding.ac.at)
  - ❖ Short hand communication

# Let's Talk Content – 2

---



# System Specification

---

- ❖ Analysis of the application domain
  - ❖ UML
- ❖ Documentation of functional and non-functional requirements
- ❖ Software architecture

# Implementation

---

- ❖ Documentation of software design
  - ❖ UML
- ❖ Coding in a team
  - ❖ Syncing the code base between the team members
  - ❖ Collaborative coding models



# Testing

---

- ❖ Kinds of tests
- ❖ Test plan
- ❖ Test specification
- ❖ Test report

# Releasing

---

- ❖ Release plan
- ❖ Roadmaps to releases
- ❖ Project and software versions
- ❖ Release notes
- ❖ Change logs