Software Engineering Project Workshop (SENG202)

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Lecture 1 – Project

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Flight data manager

Recording to: C:\Users\Eric\Desktop\data.csv

System to monitor, analyse, manage flight data Examples for illustration purposes only Log in итс 01:17 Add coverage Data / History Social About Press **AIRPORTS** AIRCRAFT PINNED FLIGHTS Search for Airports, Aircraft, Flights and Airlines Search for an airport (by IATA, ICAO, name or city) Search for an aircraft (by registration, hex or airline) Search for origin airport (by IATA, ICAO, name or city) Search for flight (b) ☑ Below 10,000 ☑ ICAO Airspace ﴿ Airstrip ② Disused ﴿ POI ☐ Glider Search for destination airport (by IATA, ICAO, name or cit Q Nearest Weather Station: Station Timed At Wind 'T Visibility Precip Cloud Temp 'C I Flight Plan Route Weather: Station Timed At Wind T Visibility Precip Cloud 🖳 Flight Data Recorder Graph Options Table Map Latitude = 42.4357863980604 degrees north Longitude = 70.9954590354273 degrees west Dracut Lawrence Altitude = 1541.20580196359 feet Trail Analysis Lowell Andover Heading = -377.486960655078 degrees Bank = -7.11439361795783 degrees Pitch = -13.4934373386204 degrees Indicated Airspeed = 155.2578125 knots Vertical Speed = -19842.4793650407 feet per second Recording Options C Wipe data in file before recording Start numbering over but keep existing data C Keep numbering Dedham Milton Quincy Norwood Braintree Randolph

Stoughton

Norfolk

Rockland Bluff-Brant Map dafa@2010 Google - Terms of Use

Project

- Not a "programming assignment"
 - Full range of software engineering skills
 - E.g., requirements, design, testing, coding, documentation, process
- "Project description" on Learn
 - Vague, open-ended it is your responsibility to define goal, scope, etc.
 - Homework for next session: study project description
- "Live-editing" of project description
 - We expect students to study the project description
 - Goal: Ask questions about project, scope, requirements, features, etc.

Technical constraints

• UML

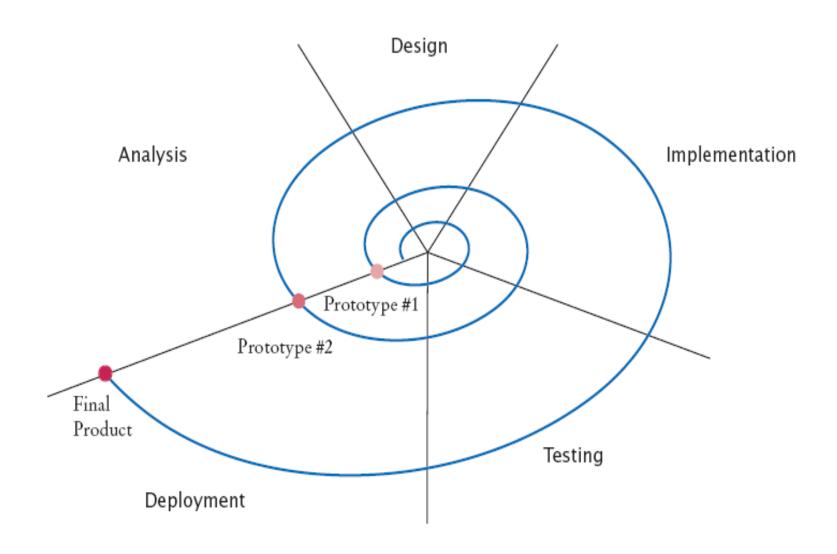
- Desktop application, Java (Swing, JavaFX, etc.)
- Single-user app (at least initially)
- Tools, infrastructure: Maven, Git, GitLab, GitLab Cl, etc.
- Project must work in CSSE lab environment

Course constraints

- Teams of five/six
- Peer- and self-assessment

- Flexible schedule meetings by arrangement
- Weekly status presentations (team) and reflections (individual)
- Record and report project activities, otherwise "fail" phase
- Penalties for unprofessional practice

Project flow: Spiral + "Phase 1 (or 0?)"

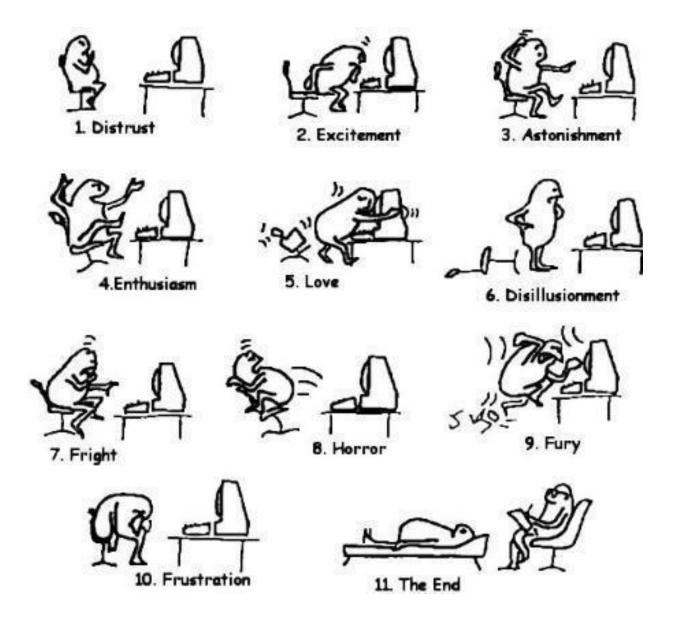


Schedule

- Phase 1
 - Focus: Project planning and setup, requirements analysis, initial design
- Phase 2
 - Focus: Implementation (including testing)
- Phase 3
 - Focus: Finishing and project delivery

Deliverables are not independent assignments

Warning!



Start planning early















