Standard Java Project Structure

Project Directory

Src

Lrevatore Lpackages and files \_ bvild L packages L. class

Compiling a class in a package

Javac to compile 000 Java use

creates directors for our specified Package

(f.og). say create the directories in this folder Java filds) file to be compiled

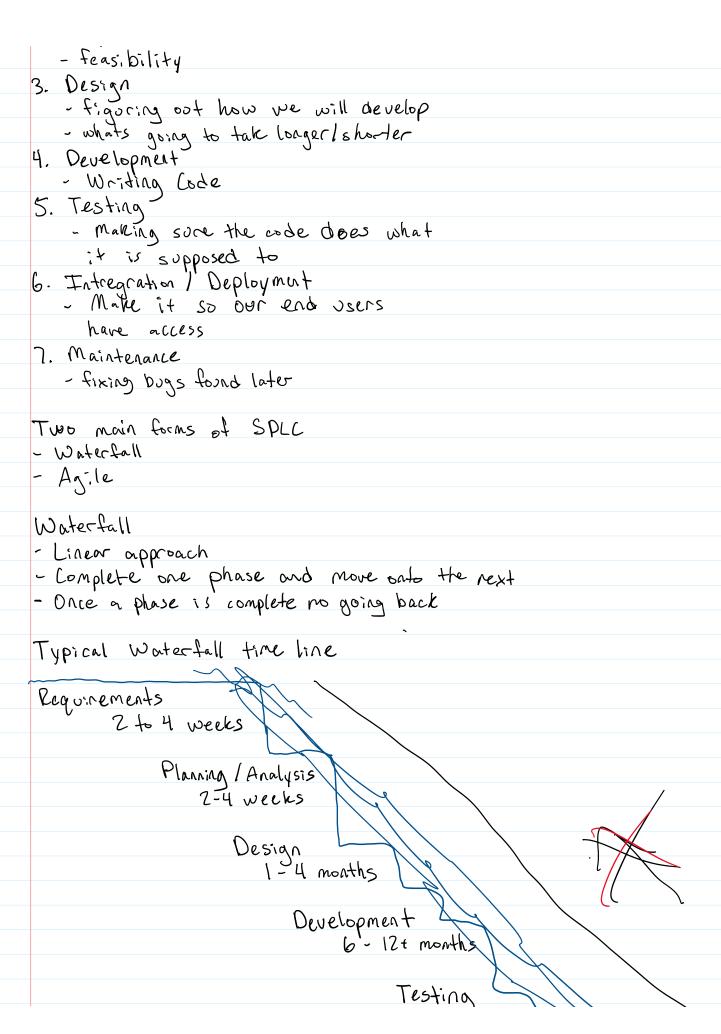
Sofware Development Life Cycle SDLC

Process of

- Planning
- Creating
- testing
- deploying

The 7 general SDLC Steps

- 1. Requirements
  - gathering into for what our app needs
- 2. Analysis
  - feasibility
- 3. Design



Testina 6 months Deployment 1-3 weeks Maintenance Lifetine

Advantages to Waterfall

- Easy to manage workflow

- Best for small teams or small projects - Generally it completes projects faster

- Process and results are easily documented

- Easily adaptable to new team members

Disadoantages

- Not very flexible

- Not as effecient

- Not as ideal for large projects

- Testing doesn't start ontil the end

Agile

- Iterative approach

- Go through the SDLC lifecycle in 2-4 week Spaints

Agile is an ideology not concrete methodology

(see values

- Individuals and Interactions over processes and tools
- Working software over docomentation
- Customer colaboration over contract regotiation
- Respond to change over following a plan

Advantages of Agile

- Client collaboration is generally coasidered good

Advantages of Agile - Client collaboration is generally coasidered good - Team culture tends to stay more self-organized and motivated - Overall quality of the product is better - Less risk in development Disadvatages of Agile - Not as useful for small projects - Higher costs - Development can bloat it continually push features down He road - Lequire more experienced team members Agilel Surum Concepts Simplest agile framework, it enforces lead by a leader, that leader enforces those practices Scrum Artifacts - Product Owner - Representative of the client - Scrom Master - Team leader who leads the ceremonies - Project Backlog - List of feature (unfinished) - Sprint Backley - List of features for the Z-4 week sprint - User Story - feature / requirement Epic group of related user stories - Sprixt - the time period of development - Velocity - the sum of story points completed that

sprint

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sprint
Story Pointing
Allows teams to assign/keep track of
the difficulty of individual user stories
Borndown Charts
- Story points completed us Story points
  day by day or sprint by sprint
As a team you decide what point value
to give a user story based on:
- Resks
- Complexity
- Repedition
- Stat Poker
- Use fib
 - 1: toisial
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Coople ways to assign points -2: easy -3: medium - 2: 9/f/(1011 ···

Scrom Ceremonies - meetings used He life cycle of the sprint

Sprint Planning: - Everyone on the dev team, and product owner - Happen once at the beginning - Set goals, scope, and metrics

Daily Standup / Scrum - Evoyday lead by scrommaster - Dry der team - Every says what they are working on what they want to acomplish and any blockes

what they want to acomplish and any blockes - ~ 15 minute> Sprint Review - Everyone is javited - Review when the team accomplished - Gain feedback - Once at the end Sprint Retrospective Scrum master will review retrics - The goal is to improve next sprint - Once at He and