Any questions from last week?

0 questions
0 upvotes

SIT773 - SOFTWARE REQUIREMENTS ANALYSIS AND MODELLING

- Lecture 9: Finalisation of Analysis

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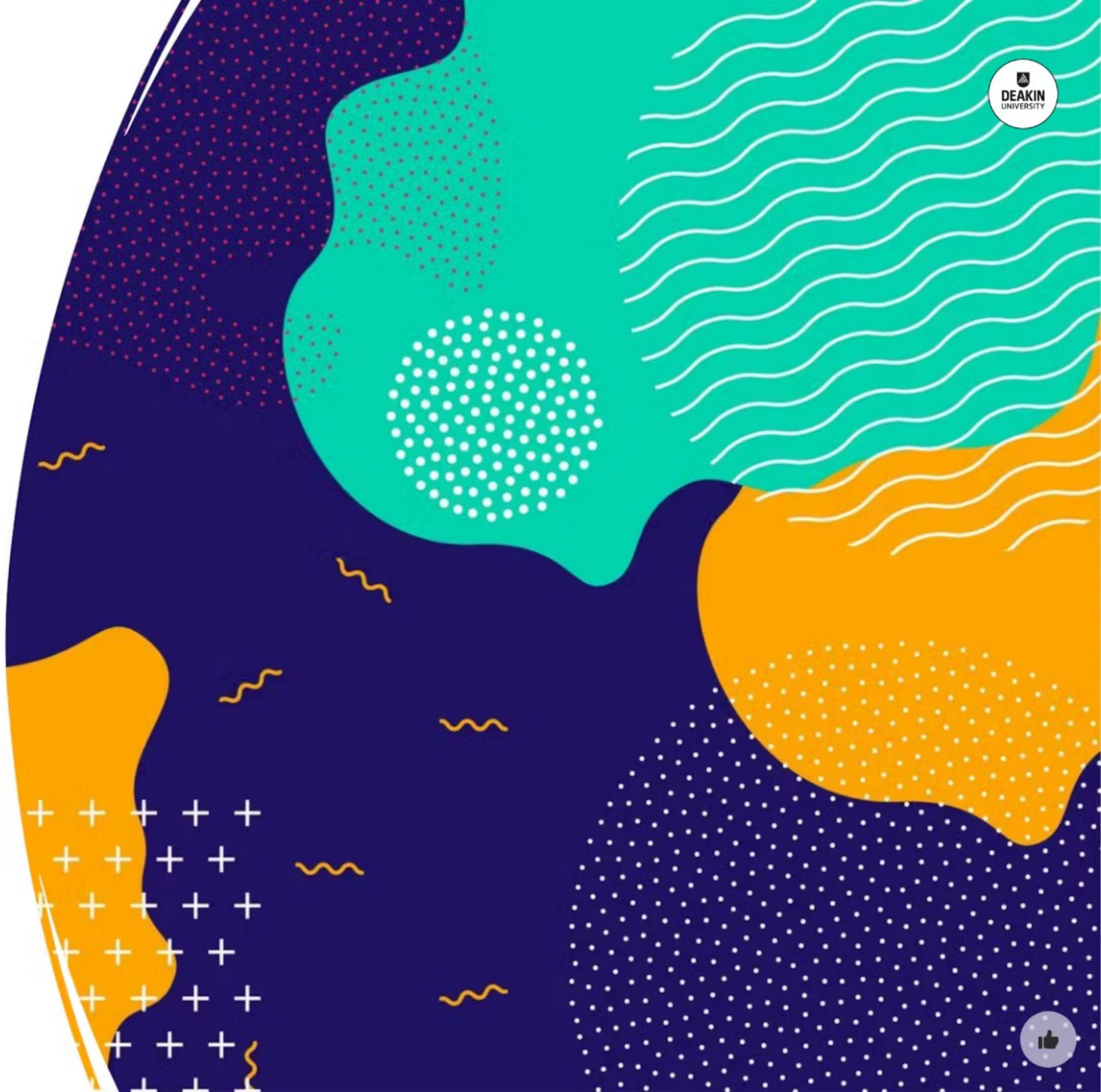


Outline

- Revisiting the SDLC lifecyle
- Discuss each phase
- Customer sign off

Revisiting the SDLC lifecycle

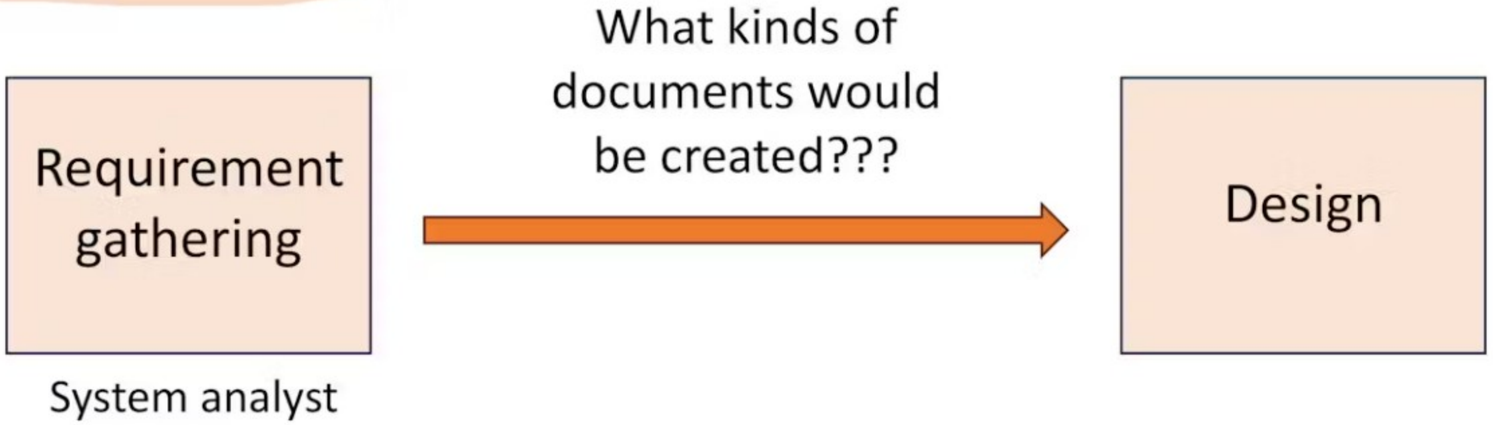
Software Development Life Cycle (SDLC) Week 1

Planning	find scope, cost, team, risks etc related to the project
Analysis	Requirement analysts understand the user needs and the context of use
Design	Explore potential solutions, and finalise one
Build	development begins across the team
Testing	tests the s/w for errors: automated or user testing
Deploy	s/w is released to users in real-world setting
Maintenance	vendor provides support for upgrades and bug fixing.

Requirement analysis

Managing Documentation

Managing Documentation



What types of documents are generated by the system analyst for handover to the team?

use cases

Requirements Specification DocumentSystem Design DocumentUse Case Diagramstest Cases and Scenarios

use case diagramsERDWireframe sproject planrequirment analysis

User stories

Requirements Specification DocumentSystem Design DocumentUse Case Diagramstest Cases and Scenarios

SDLC plan

SRS DocumentProject completion report

mockups

What types of documents are generated by the system analyst for handover to the team?

Requirements
Documentation

performance, security,
UAT

What qualities should the requirement list possess for a successful handover?

clarity, completeness,, consistency,

software system's vision statement matched

Correct, clear, prioritised

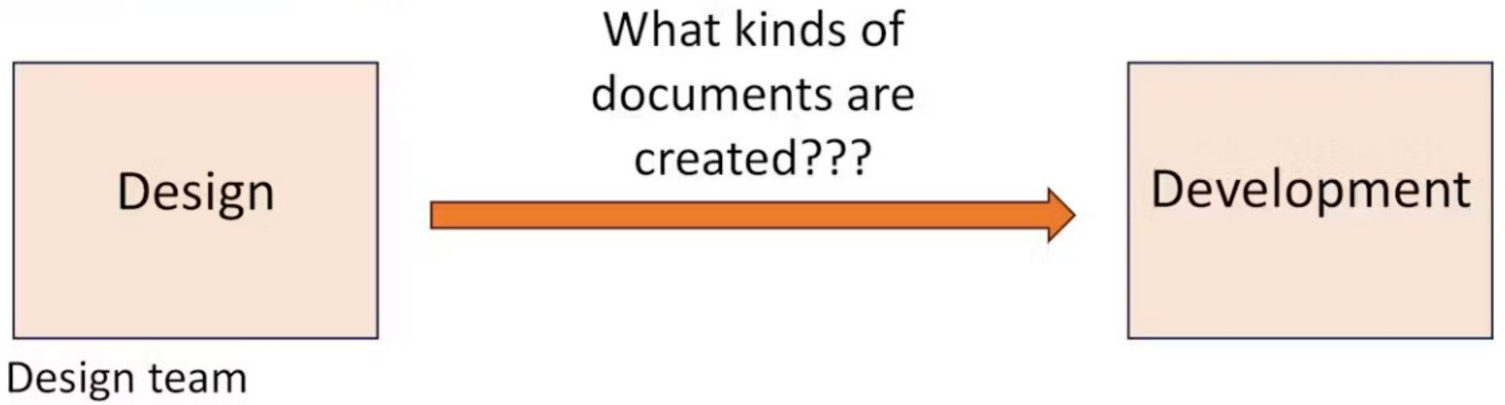
feasibility, tracebility, testability etc

SMART

Design phase

Managing Documentation

Managing Documentation



What types of documents are generated in the design phase?

WireframesArchitecture Design

Domain model diagrams

Implementation Document

Test Cases or test design

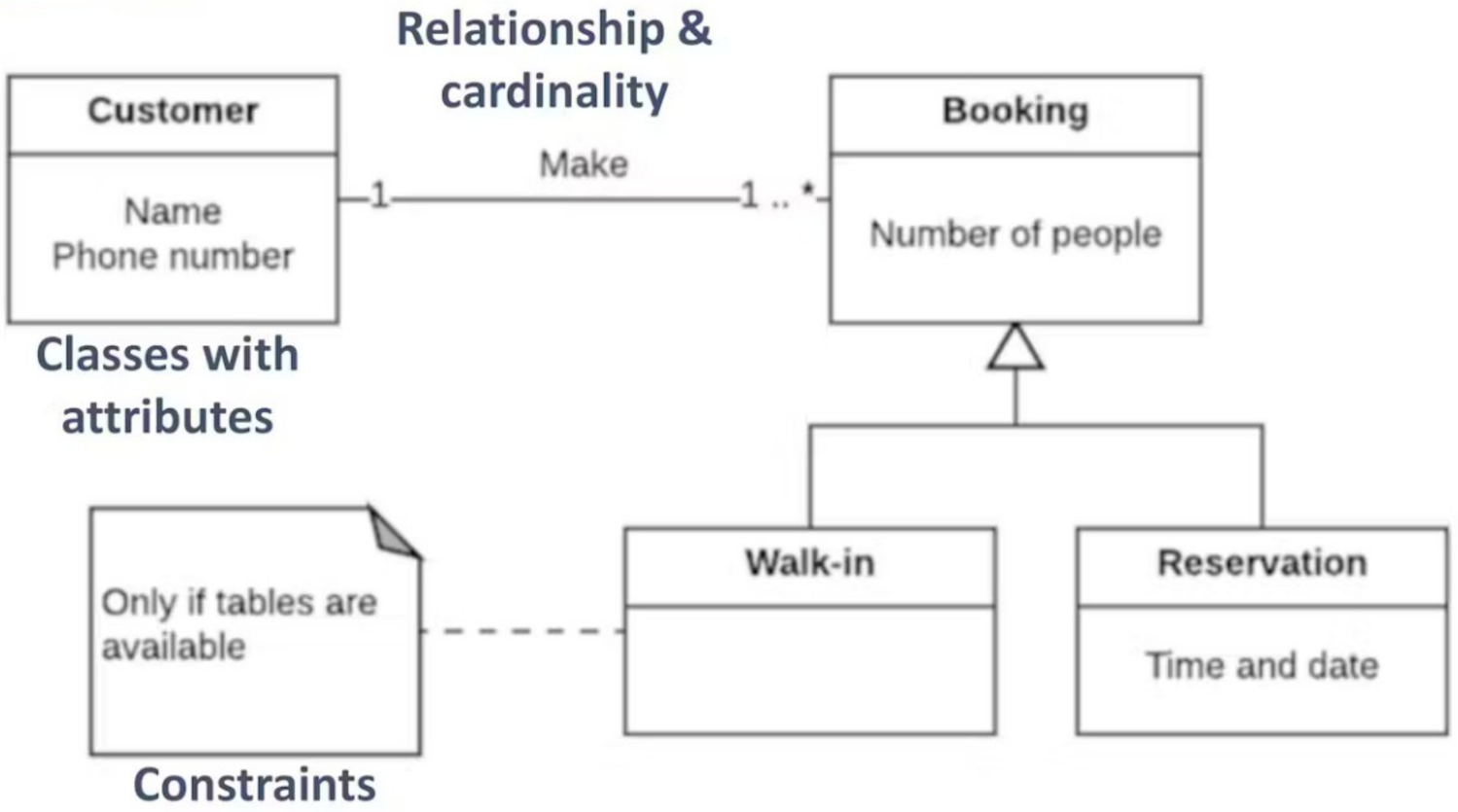
Domain Model (Week 2)

- Domain model captures all entities in the domain and how they relate to each other.

- These diagrams are used to communicate the problem to the project team.

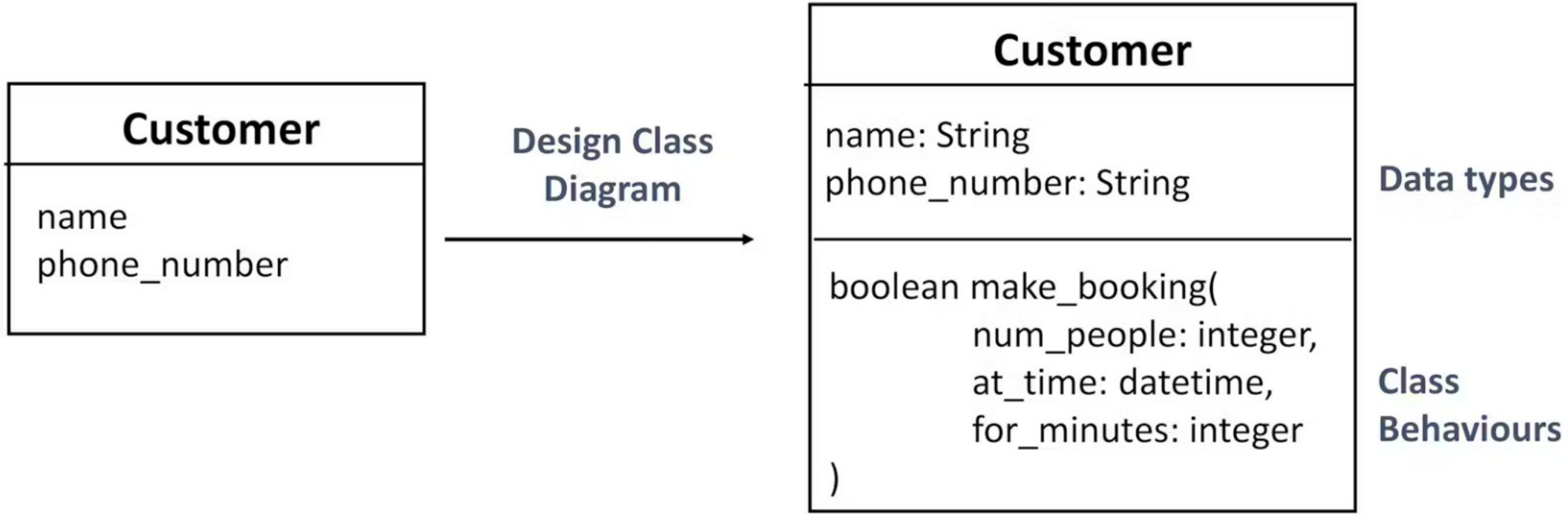
- It's an iterative process to develop domain models.

- Use Lucidchart to create these models

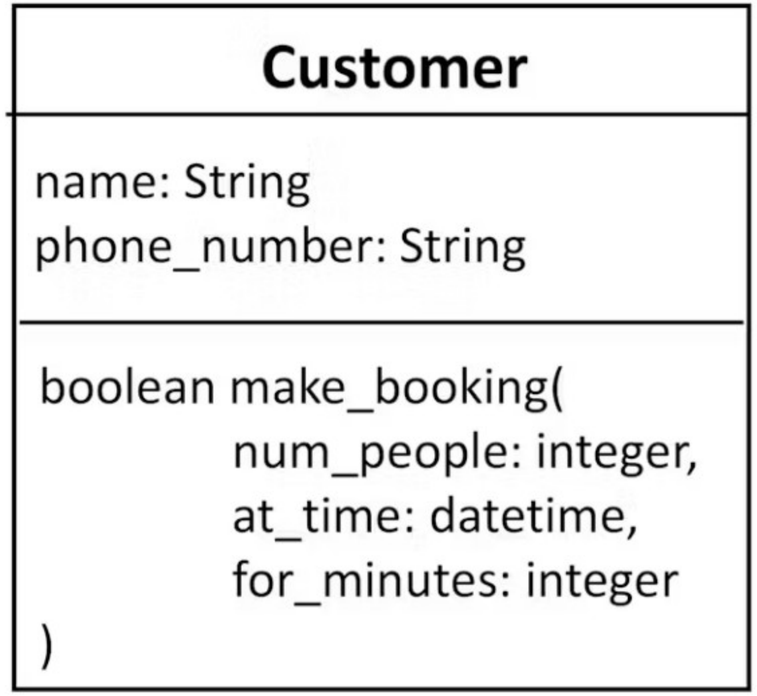


Design Class Diagram

- specify data types within each class
- add behaviours to classes
- add coordinating classes



Design Class Diagram



Data types

Class Behaviours

Data types

Class Behaviours

What are the issues with documentation?

Inconsistencies

Version control

Not having a concrete set of requirements from the beginning (specially if using Waterfall method)

hard to manage alot of documents

Not documenting changes

Incomplete or unclear requirementsMissed stakeholdersLack of agreement

What strategies should be used to properly manage the documentation?

Version control, access management

central system to manage all documentsVersion control

Chain of custody of the document should also be considered

Development

Testing

What kind of testing is performed during the development process?

Unit testing

integration testingunit testing

Functional testing

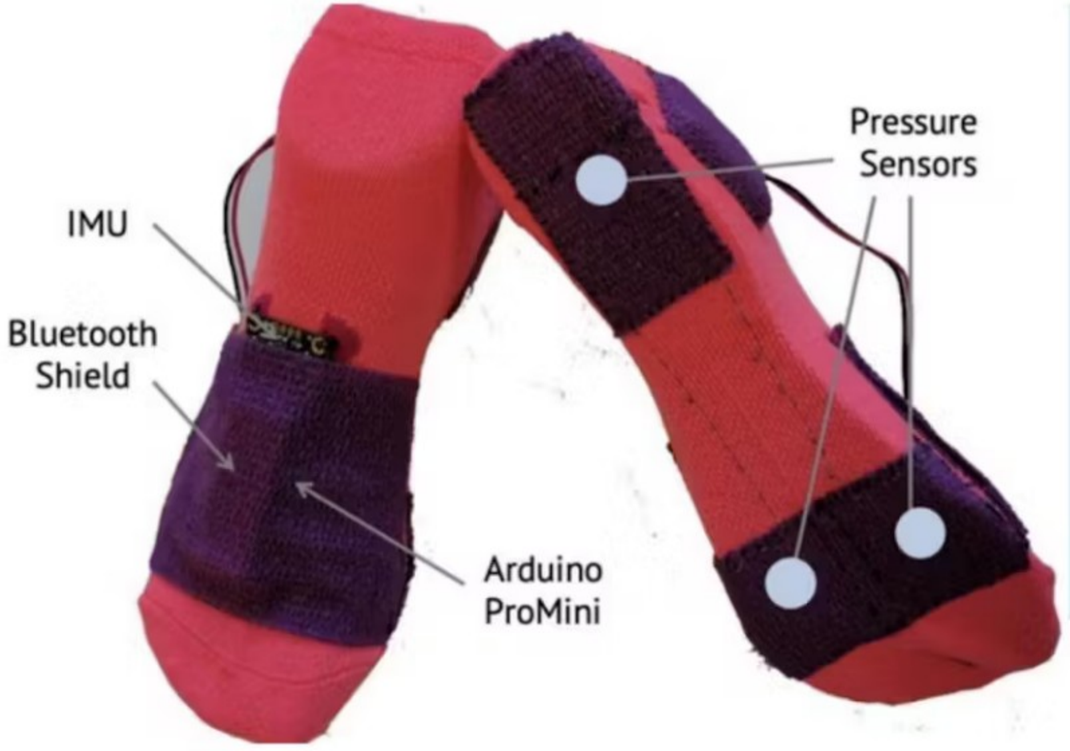
Regression testing?

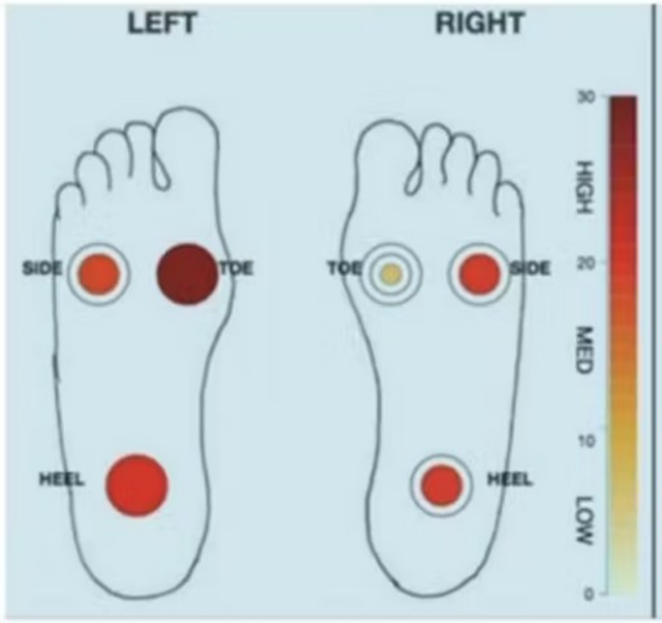
Stress testing

performance testing

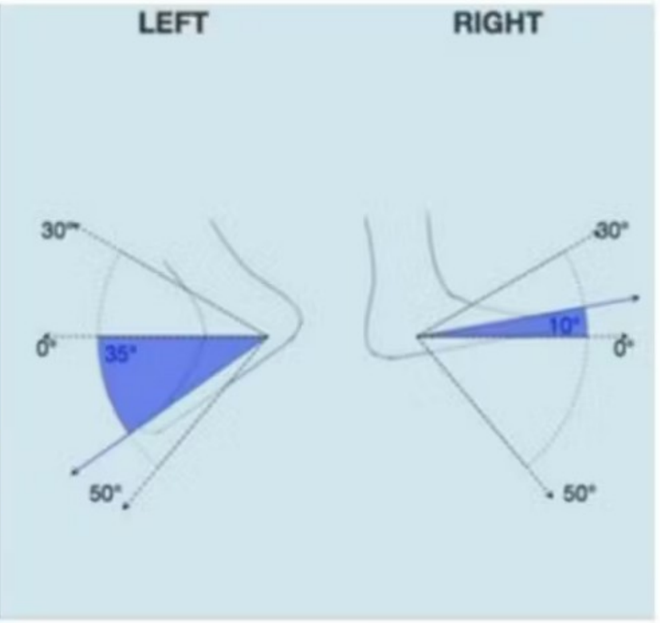
security testing, compatibility

Can you guess what types of testing were performed during the SoPhy development?





Weight Distribution, Foot Orientation

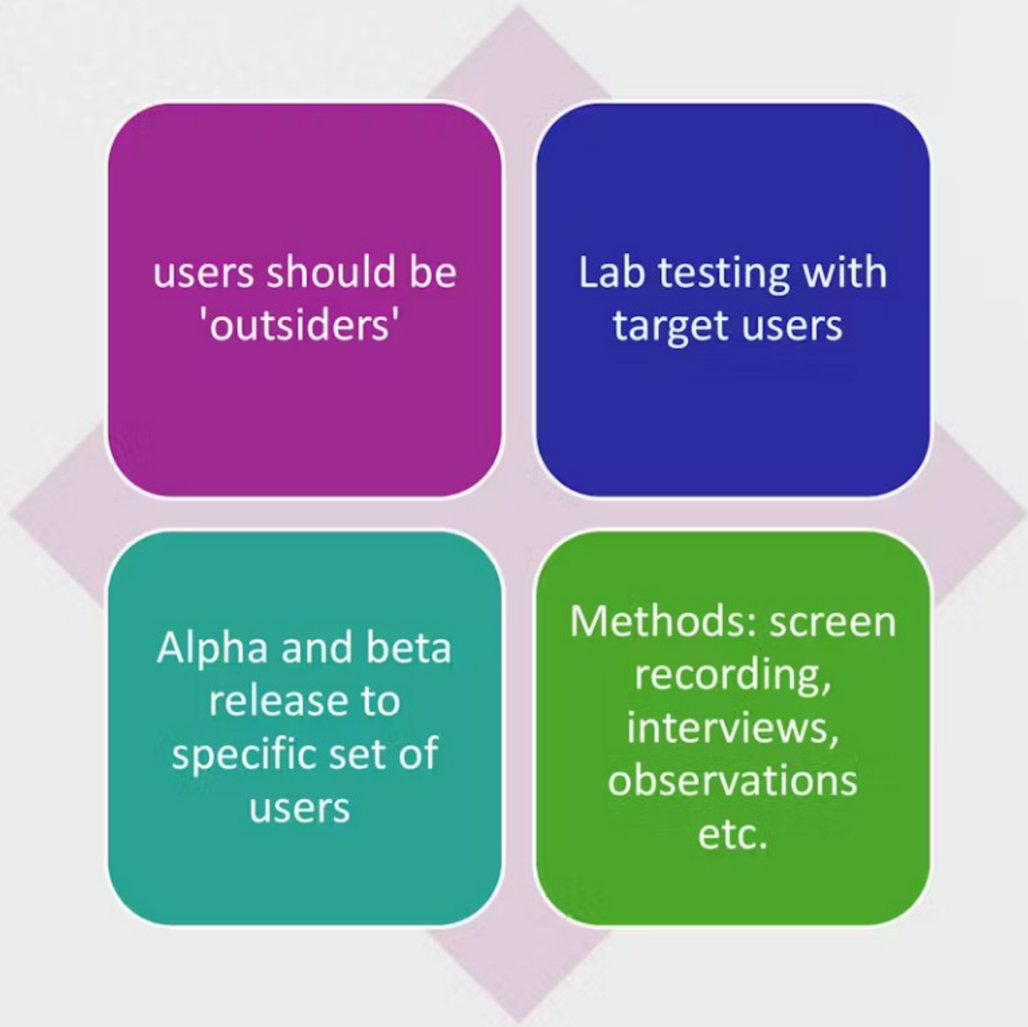


Range of Movement

Testing

User Acceptance Testing

User acceptance testing



What issues can be uncovered through the user acceptance testing?

Functionalities that dont align with initial user requirements

requirement gaps

Requirement process not aligned with require

usability issues, performance issues, unexpected behaviours

What are the challenges of conducting user acceptance testing?

Accessibility

limited users

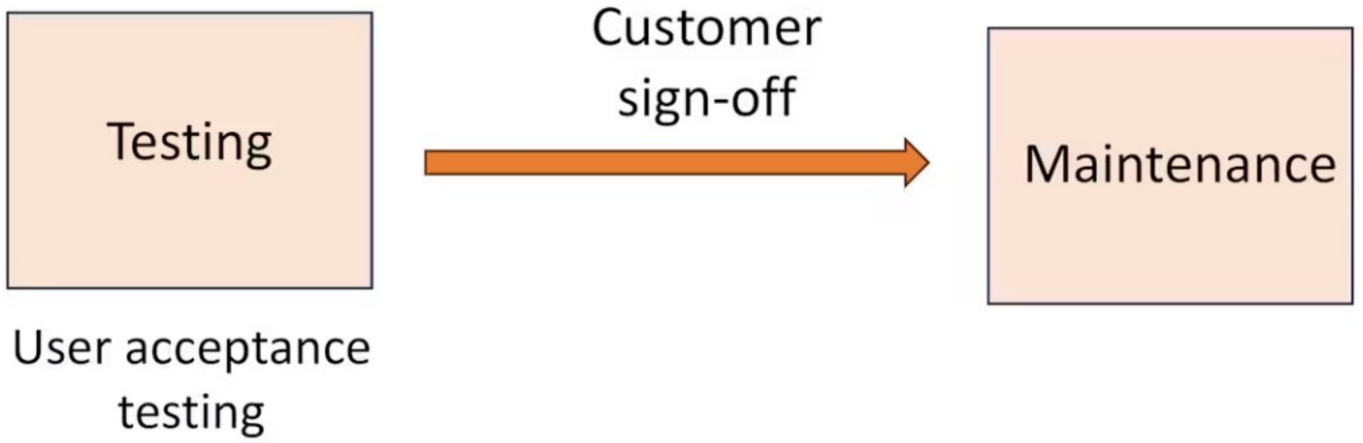
Not having access for the users

managing feedback

Customer sign-off

- The customer acknowledges that the work was delivered by the organisation and that the organisation should be paid.

Customer Sign-off



What could go wrong with sign-off?

Clear CommunicationThorough Review ProcessInvolve All Key StakeholdersCreate a Change Management Plan

agree on acceptance criteria, regular updates

What are the strategies to manage the potential sign-off issues?

Clear contract on deliverables

Create a Change Management Plan

Good communication with the customer up to the sign off, including checking on expectations and timeframes.

Prioritize RequirementsInvolve All Key StakeholdersClear CommunicationThorough Review Process

Any questions?

0 questions
0 upvotes

Let us look at the tasks now.

Thank you!

I will see you all next week.