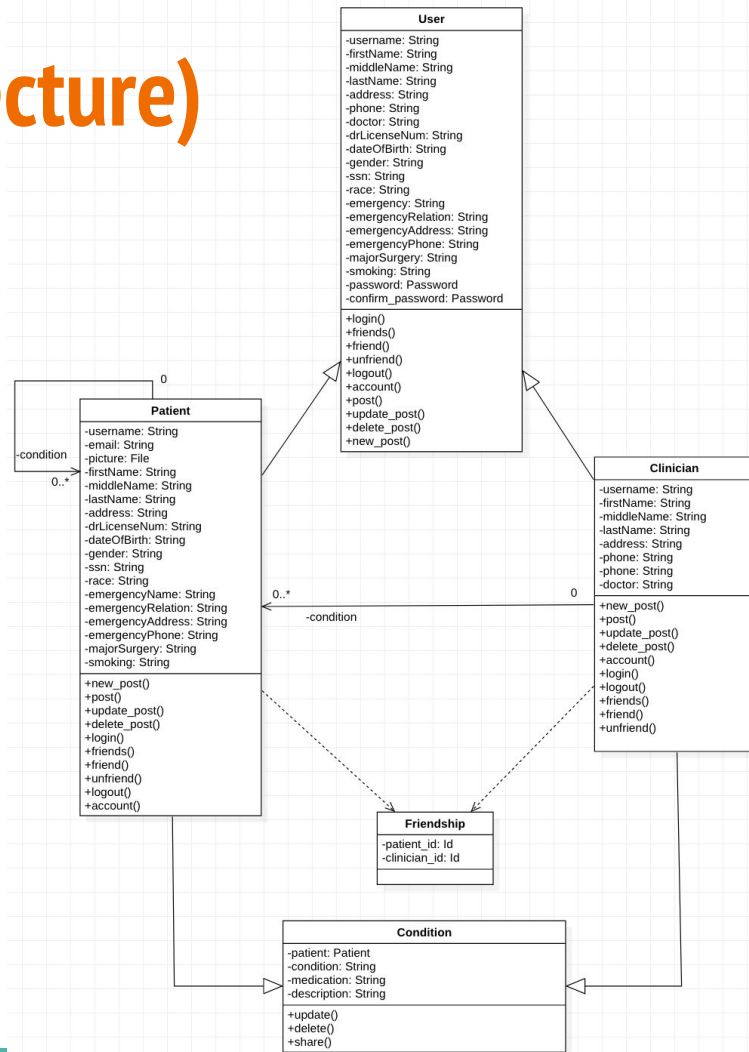

Medical Social Network

Group 11

— Christian Marquardt, Cole
Sluggett, Kayla Wheeler, Max
Carr —

UML Design (System Architecture)

- Observer pattern
 - Patients are being updated/notified by their clinician with a condition
- Singleton Pattern
 - Users are connected to the same database
 - Pre-conditions can be administered to themselves
- Database Structure
 - SQLite



Design Choices for maintainability and extensibility

- The use of dynamic html across all pages
- Using Python Flask for ease of use in database interaction and file activity
- Putting all installed frameworks in a text document for easy access of what frameworks are being used/ are needed

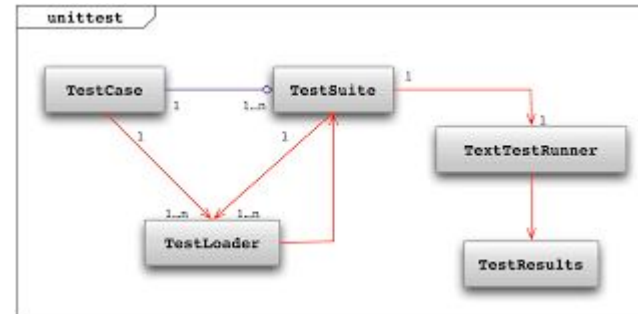


Test Procedures

- Automated Testing-
 - Selenium IDE
 - User Creation
 - Login & Logout
 - Condition Posting
 - Friending and Unfriending
- Continuous Testing
 - SonarCloud
 - Static code analysis
- Unit Testing
 - Python frameworks
 - coverage
 - unittest



sonarcloud 



Quality Assurance Methods

Stages of Quality Assurance to produce high quality software:

- Identifying standards if any used in software development processes.
- To conduct conventional processes, such as quality reviews.
- Perform in-process test data recording procedures.
- Encouraging documentation process standards.



Why use Quality Assurance Methods?

Some of the benefits of Software quality are –

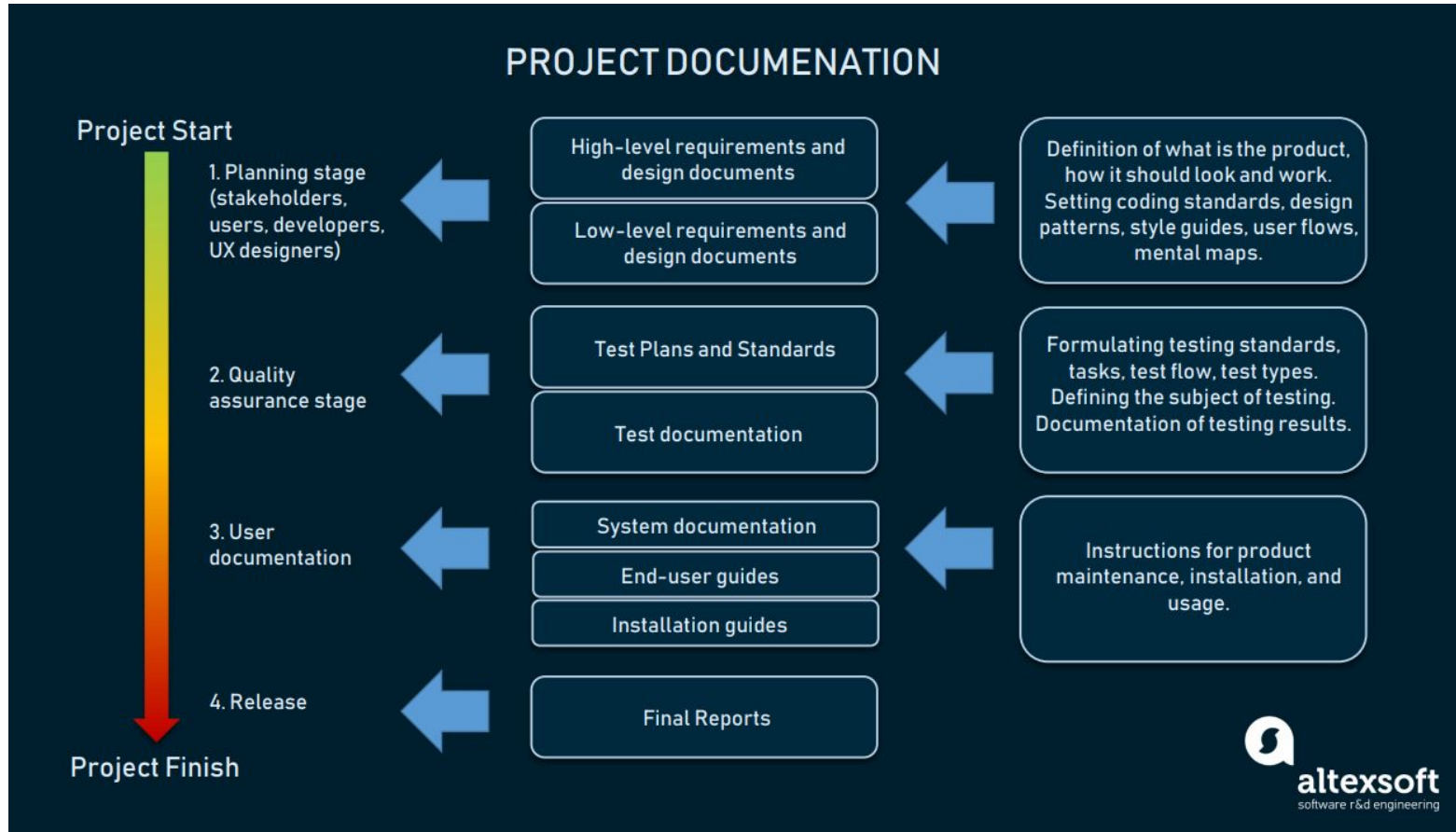
- Increased productivity of the development team
- Improved Product Quality – Test statistics and defect tracking are more precise and up to date
- Decreased re-work costs as the detection of defects are found earlier in software project development life cycle in every stage
- Increased confidence levels in existing product management and future product development
- Increased credibility as the software produced will be highly qualitative
- Saves Money
- Boosts Customer Satisfaction and Confidence

Quality Reviews

- Code Reviews
 - Fixed problems in code that might not have been able to be seen
- User Testing
 - Gave an outside look on the website
 - Showed what we needed to add/takeout
- Sprint and Scrum Meetings



Documentation Process Standards



DEMO

<https://www.medspace.tk>