COMP 10066

Wee

Recorded by Karen Laurin

Lecture # 4 - Software Quality – Test Plans

- The goal of planning provides a way to identify:
  - Requirements
  - Resources
  - Scheduling
  - Involves the te
    - All parties need to be involved to ens
  - **Key to success is communication**

Test Plan Planning / Brainstorming

1. Purpose of the testing

2. What is in the testing scope?
   - What will be tested, what will be omitted.
   - Degree or Assignment Project Exam Help

https://eduassistpro.github.io/

3. What type of testing?
   - Unit testing Add WeChat edu_assist_pro
   - Integration Testing – Interface with existing systems.
     - Do test systems/databases need to be set-up for the testing.
   - Systems Testing
   - End User Testing / Acceptance Testing

Test Plan Planning / Brainstorming

4. Who will Test it?
   - Programmers?
   - Testing Team?
   - Customer

5. What are th
   - Must have features completed vs. Ni   es
   - Max # of bugs found in the last iterat
     - Could also be elimination of all severe bugs

Assignment Project Exam Help

https://eduassistpro.github.io/

Add WeChat edu_assist_pro

Test Plan Document

- Actual look and feel of the document is company specific

- In Assignment 2 of this course, we will define the sections required for the test plan submission

Test Plans – Starting and Stopping Testing

- Entry and Exit Criteria for the testing plan
  - ENTRY
    - Under what conditions can testing start?
    - Will we do it throughout the cycle?
    - Do
      - do
  - EXIT
    - When are we done?
    - Quality achievement level has been obtained
    - Bug detect frequency (i.e. # bugs/week)
    - Scheduling requirement – **Deadline cannot be missed**

Test Plans – Resource Planning

- List the resources that should be defined and include in a Testing project.

1. People **
2. Equipme
3. Office Sp
4. Software
   - Reporting/Tracking software
5. Outsourcing companies
6. Miscellaneous Supplies
   - Domain Reference material
   - Domain training material

** - important for small testing projects

Test Plans – Integration into Project

- Since Testing must be integrated into the SDLC process, list the first way the scheduling could be placed into the project.

  Assignment Project Exam Help

  1. Hard Date scheduling

     - Fix start and s https://eduassistpro.github.io/
     - Advantages
       - Eases scheduling / resource allocat
       - Only real solution for outsourcing Add WeChat edu_assist_pro
     - Disadvantages
       - Difficult to control entry and exit conditions from a quality perspective.
       - Delays can compromise the testing process

Test Plans – Integration into Project

- Since Testing must be integrated into the SDLC process, list the second way the scheduling could be placed into the project.

  1. Relative Dates

     - Advantages
       - Start date ~~test cycle is~~ met.
       - Original estimates for testing time ~~o reality.~~
     - Disadvantages
       - Shifted time may not optimize resources.
       - Testing team may be allocated to other projects in future and may still end up in a time crunch.

Test Plans – Classifying the "Bugs"

- When is it a bug?
  - Bug classifications are used as a way to confirm where and why a certain behavior is a bug.
    - We use project documents to confirm the expected behavior/
    - In most c   e used as the guiding document.

Test Plans – Classifying the "Bugs"

- Bug Classifications:
    1. Software does not do something in the specification.
    2. Software does something that the specification says it should not do.
    3. Software ~~mention.~~ on does not
    4. Software does not do somethin~~g~~ at is not mentioned in the specification.
        - ** missing a feature that is present in similar software

Test Plans – Classifying the "Bugs"

- Some bugs do not fit into the standard categories.
  - Any unspecified / incorrect behavior should be reported.
    - Simple – Inconsistent Formatting / spelling
    - Major – Crash (Exceptions, Blue screen of death, Data loss)
    - Thes   rectly in any
      appli
    - Generally the programmer h   er all cases
      when these bugs occur.