

Seminar Report on “Software Testing in Industry and Opportunities in Software Testing”

1. Date of the Seminar/Workshop:-09/10/2021

2. Title of the Seminar/Workshop: - Software Testing in Industry and Opportunities in Software Testing”

3. Name of the Speaker/Resource person with Affiliation with the institute/industry:-Mrs Swati Bansod, Test Engineer at ICE Mortgage Technology, Pune

4. Venue of the Seminar/Workshop: - Platform used Google Meet

5. Duration of the Seminar: - 2 hrs (3 to 5 pm)

6. Conducted For:-Students of Third Year Computer Engineering

7. Objective of the Seminar/Workshop /Curriculum Gap identified/Other than that (Write 2-3 lines):-

The objective of the seminar was basically to ensure that the students should have a clear understanding of software testing in industry. The Agenda of arranging this seminar was to give the students technical/practical insight of the software engineering process and software testing in Industry.

8. Contents of the Seminar/Workshop

- What is a Product?
- Types of Companies (Product based , Service Based)
- Roles of Developer and Tester
- Types of Testing
- Testing Techniques
- Software Development Life Cycle.
- Waterfall Model
- Agile methodology (Scrum, Kanban Model)
- Opportunities in Software Testing

9. Description of the Entire Event

- Overview of the session

The speaker of the session Mrs. Swati Bansod has given a great insight on Software Testing in Industries and Opportunities in Software Testing. The speaker started from the basic concept of what product are types of companies and covered various topics in the field of software development. The role of tester and developer during software development was clearly explained by the resource person. Various stages in software development life cycle were discussed. To explain the SDLC process an example of eBay shopping website was also given and was explained how the various modules are designed and tested in step by step manner. Using this example students got the clear idea about the software development process. The speaker talked about the Jira tool, which is a software application used for issue tracking and project management. She explained how this tool is widely used by agile development teams to track bugs, stories, epics, and other tasks. Then she talked on different testing techniques applied while developing and testing the software. The concept of black box testing and white box testing was explained in detail. The agile methodology which is used while creating any software product was also covered during the session. The Scrum and Kanban model used in agile methodology was explained in detail. The speaker also talked about why scrum model is widely used in any software company. The doubts and questions put by the students were also answered at regular intervals. Overall the session provided a great knowledge regarding software development and testing techniques used in software industries.

- Technical Details

- **Functional testing (Manual/Automation)** - testing which is done according to the system requirements is known as functional testing.
 - Unit Testing
 - Integration Testing
 - System Testing
 - Smoke Testing
 - Regression Testing
 - Acceptance Testing
- **Non Functional Testing** - Can only be done by using tools
 - Performance Testing
 - Load Testing
 - Spike Testing
 - Stress Testing
- **White Box Testing** - Usually done by the developers. It includes Unit Testing and Integration Testing
- **Black Box Testing** - Usually done by the testers. It includes all other testing techniques.

- **Software Development Life Cycle (SDLC)** - It describes all the steps required for developing any software. The various stages of any software development are-
 - Requirement Analysis
 - Planning
 - Designing
 - Development
 - Testing
 - Deployment
 - Maintenance
- **Jira tool** - A software application used by agile development software teams for issue tracking and project management.
- **Waterfall Model** - It is a linear sequential model used for software development.
- **Agile Methodology** -
 - Scrum Model - Widely used in software industries for software development
 - Kanban Model
- **Opportunities in software testing** - There are many opportunities in the field of software engineering for students.

- Regarding total number of participants

There were approximately 112 students and 4 faculty participants who attended the seminar.

- Overall feedback about the seminar/Workshop and about the resource person

Overall the seminar went phenomenal. It gave a corporate feeling to the viewers. The resource person had clarity of thoughts and took over the seminar very cleanly. She started the seminar with very basic questions and slowly took things to the core of the subject. The speaker made students think out of the box with frequent good questions. The session was very interactive as the speaker kept asking questions to the students at regular intervals. All the doubts were also cleared at regular intervals. Overall the resource person was very knowledgeable, interactive and the seminar was very beneficial for the students.

- How do the objectives of the seminar meet the requirements?

As Software engineering is one of the subjects in the third year syllabus, students already had theoretical knowledge about the subject. Agenda of arranging this workshop was to give the students technical/practical insight of the subject which was done successfully by the resource person. She told how things really work in the corporate world knowing which was really amazing for students.

- Photographs of the Seminar/Workshop

The image is a screenshot of a Google Meet interface. At the top, the browser tabs show 'Inbox (6,053) - varshanagpurkar', 'Meet - zma-cuqn-pov', and 'Meet - zbu-kzbt-mgr'. The address bar displays 'meet.google.com/zma-cuqn-pov?pli=1&authuser=0'. The main content area shows a screen share of the eBay website. The eBay page features a search bar, navigation links, and a promotional banner for 'Looking to shop at eBay?' with images of a golf bag, sneakers, perfume, and a camera. The Meet interface includes a 'REC' button, a presenter name 'Swati Tantrapale is presenting', and a list of participants: Swati Tantrapale, REUBEN CHATTERJEE_192015, NIGEL MALAPPAN 192062, and 'You'. The bottom of the screen shows the Windows taskbar with the time '3:45 PM' and date '09/10/2021'.

Inbox (6,053) - varshanagpurkar x Meet - zma-cuqn-pov Meet - zbu-kztb-mgr

meet.google.com/zma-cuqn-pov?pli=1&authuser=0

REC Swati Tantrapale is presenting

Non Functional Testing(Can only be done using tools)

- Performance testing
- Load Testing
- Stress Testing
- Spike testing

meet.google.com is sharing your screen. Stop sharing Hide

Swati Tantrapale

REUBEN CHATTERJEE_192015

NIGEL MALAPPAN 192062

You

3:52 PM seminar

Class List

3:52 PM 09/10/2021

Meeting interface showing a presentation slide, a list of participants, and a video feed of the presenter, Swati Tantrapale. The slide content is partially obscured by a 'Stop presenting' overlay.

REC Swati Tantrapale is presenting

meet.google.com/zma-cuqn-pov?pli=1&authuser=0

REC You're presenting to everyone Stop presenting

People

- Swati Tantrapale
- ADITI DESAI_192024
- COLLIN DBRITTO_192023
- COLLIN DBRITTO_192023
- COLLIN FERREIRA_192044
- CYRUS MELROY FERNAN...
- EKTA MASRANI_192065
- ELEESA ANIL_192004
- FRANKLIN ELANGO_1920...
- ISHAAN BANDEKAR_1920...

ADITI DESAI_192024

55 others

Swati Tantrapale

NIGEL MALAPPAN 192062

You

15:57 | zma-cuqn-pov

meet.google.com is sharing your screen. Stop sharing Hide

Type here to search

28°C 15:57 09-10-2021

3:57 PM seminar

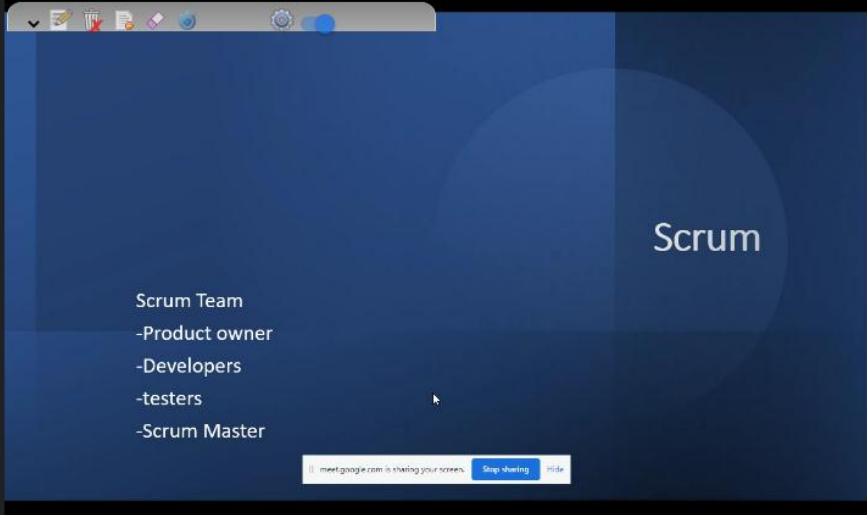
Class List

3:57 PM 09/10/2021

Inbox (6,053) - var x Meet - zma-c x Meet - zbu-k x +

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Swati Tantrapale is presenting



Scrum

- Scrum Team
- Product owner
- Developers
- testers
- Scrum Master

Swati Tantrapale

NIKHIL NAIR_192077

You

4:17 PM | tecmpnb

TE-A-Attendance1.html Canceled

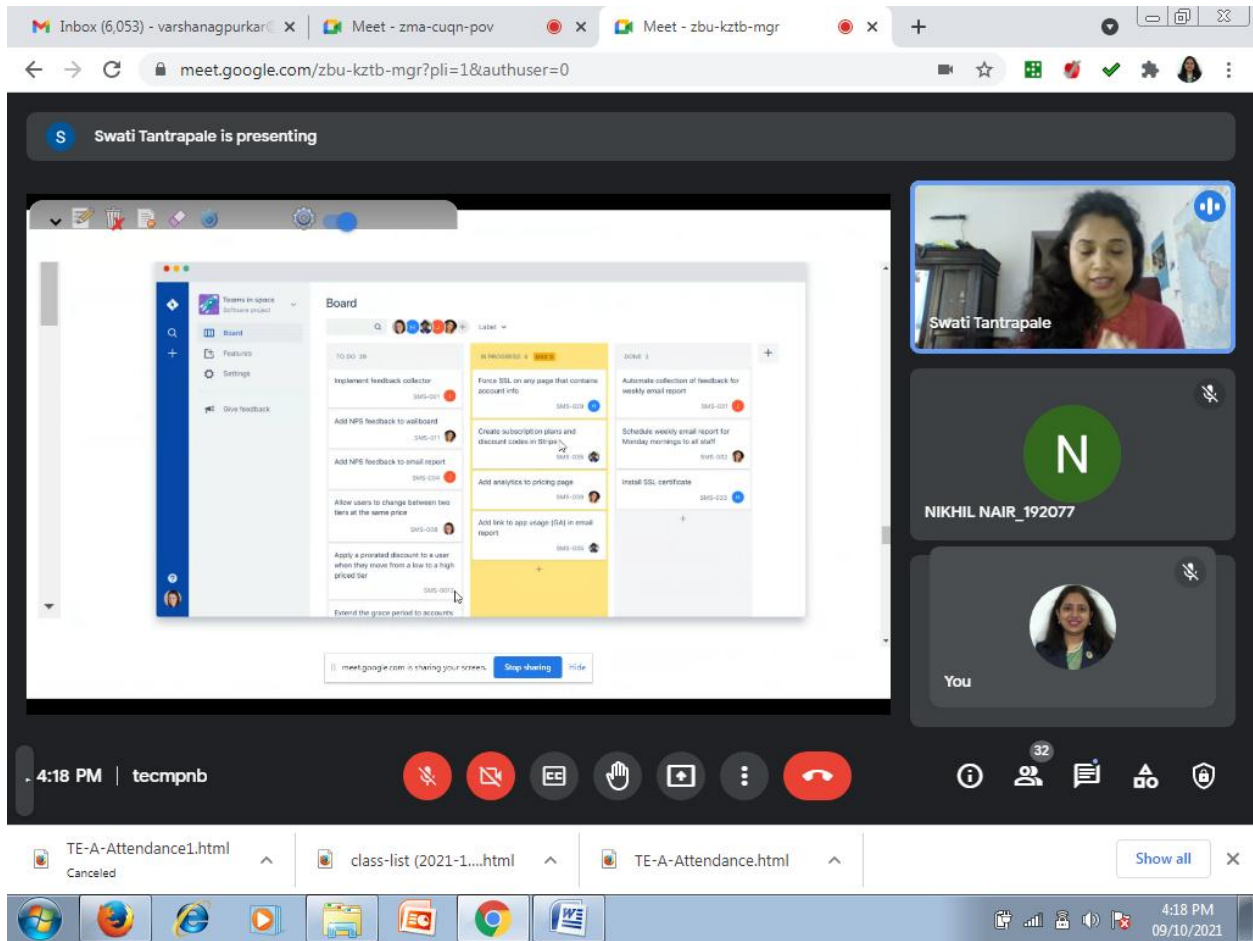
class-list (2021-1....html

TE-A-Attendance.html

Show all x

4:17 PM 09/10/2021

Detailed description: This image shows a Google Meet session in progress. The main window displays a presentation slide titled 'Scrum' with a list of roles: Scrum Team, Product owner, Developers, testers, and Scrum Master. The presenter, Swati Tantrapale, is visible in a small video window. Other participants, including NIKHIL NAIR_192077 and 'You', are shown as thumbnails. The bottom of the screen features a Windows taskbar with several open browser tabs and a system tray showing the time as 4:17 PM on 09/10/2021.



Ms.Varsha N. And Ms.Snehal K.
Seminar Incharge

Dr.Kavita Sonawane
HOD,CMPN