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Practical 2

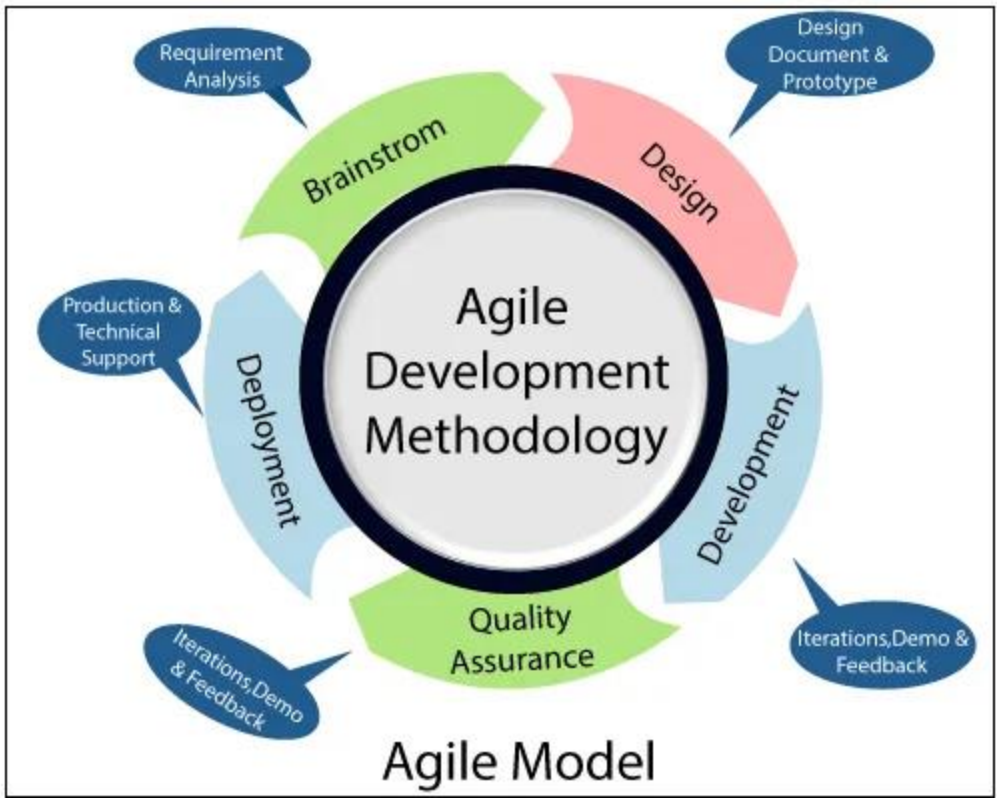
Aim : Case Study on Agile Model

Topic : Active Chat Monitoring and Suspicious Chat Detection over Internet

Theory:

Agile Model

The meaning of Agile is swift or versatile."**Agile process model**" refers to a software development approach based on iterative development. Agile methods break tasks into smaller iterations, or parts do not directly involve long term planning. The project scope and requirements are laid down at the beginning of the development process. Plans regarding the number of iterations, the duration and the scope of each iteration are clearly defined in advance.



Phases of Agile Model:

Following are the phases in the Agile model are as follows:

1. Requirements gathering
2. Design the requirements
3. Construction/ iteration
4. Testing/ Quality assurance
5. Deployment
6. Feedback

1. Requirements gathering:

For our model we required details like:

- IP address of both chatting parties
- Chats of both parties

2. Design the requirements:

This Model is basically an online chatting site. Two random people can chat online using our interface. The chats are scanned for traces of defaming or any other suspicious chat.
So, following System Specification are needed.

- Minimum 16GB ram
- 1 TB HDD as Server for storing chats
- Active Internet Connection
- Any Suitable Browser

3. Construction/ iteration:

With inputs from the system design, the system is first developed in small programs called units, which are integrated in the next phase.
So, there are two units are as follows.

- **Frontend:**
  - Here we develop a code for frontend which is the chatting interface displayed on loading of the site.
- **Backend:**
  - Here we store the cats in the DB server and are simultaneously scanned using our comprehensive AI technology.
  - Sometimes the chats are also monitored by a real person

4. Testing:

- Firstly for the friendly check, we assign two of the employees to chat by deliberately using offensive words.

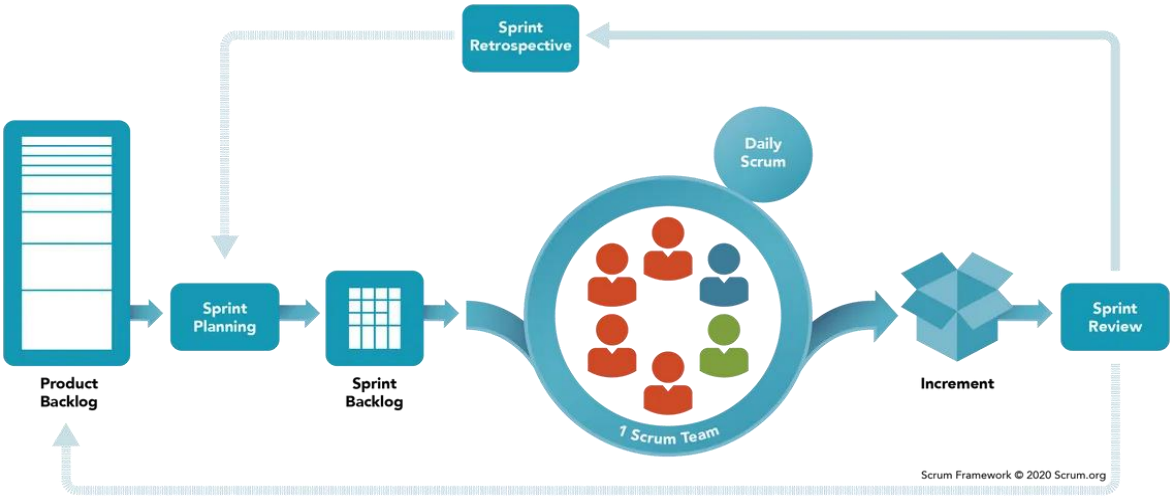
- For a wider test two random persons are given the opportunity to test the web application.
- Finally for the public test, users are free to report bugs within the suspicious chat detection.
- all of the bug fixes are then integrated together for improving our web application.

5. Deployment:

- In this phase once the functional and non-functional testing is done; the product is deployed in the web free for the users.

6. Feedback: After releasing the product, the last step is feedback. In this we will receives feedback about our AI and its success rate.

Scrum



Sprint:

A first Sprint is of a time-box of one month. And in this sprint we start with information gathering stage. And start designing the basic web page for chatting. Then after the completion of previous sprint new Sprint starts immediately.

Release:

Here after the completion of sprint and when product is completed then it goes to the Release stage.

Sprint Review:

After the release state If the model still have some errors or non-achievable features then that error are checked in sprint review stage and then the product is passed to the Sprint Retrospective stage.

Sprint Retrospective:

Once the errors and bugs in product are fixed in sprint review stage. Then the quality and working of product or status of the product is checked in sprint retrospective stage.

Product Backlog:

In this stage According to the users requirements and prioritize features the product is organized.

Sprint Backlog:

In this stage the next features for product to done I next sprint is assigned and planning meeting for that sprint is done. This is the last stage of scrum model.