Shri Vile Parle Kelavani Mandal's
DWARKADAS J. SANGHVI COLLEGE OF ENGINEERING
(Autonomous College Affiliated to the University of Mumbai)
NAAC Accredited with "A" Grade (CGPA : 3.18)

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Div : B
Batch : C22

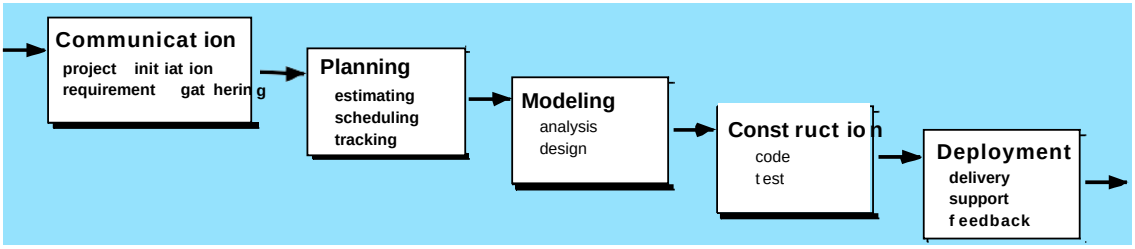
Experiment 1

Aim: To identify a suitable life cycle model for your case study and justify your choice

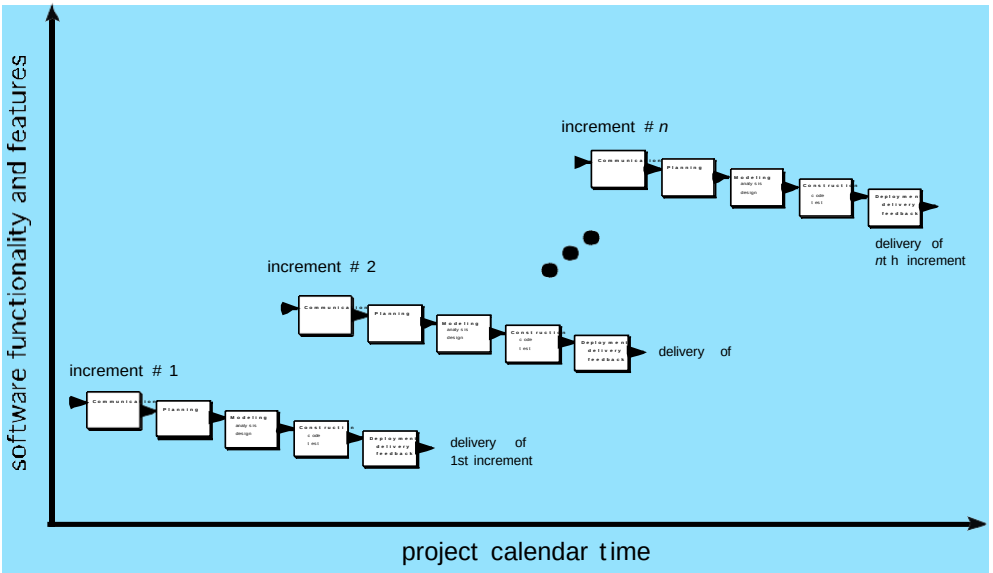
Theory:

There are different types of models that are suitable in different situations.

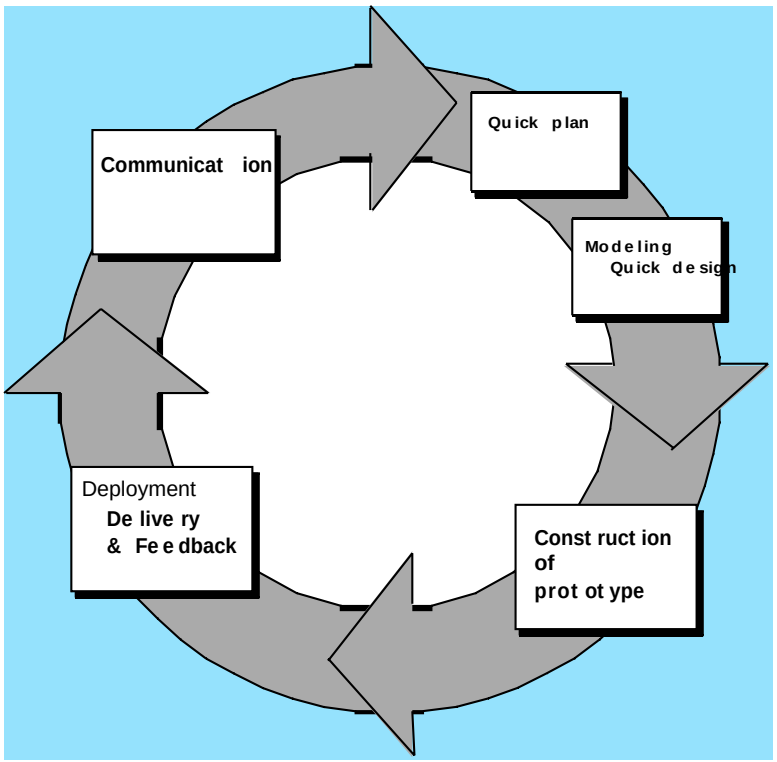
1. Waterfall model



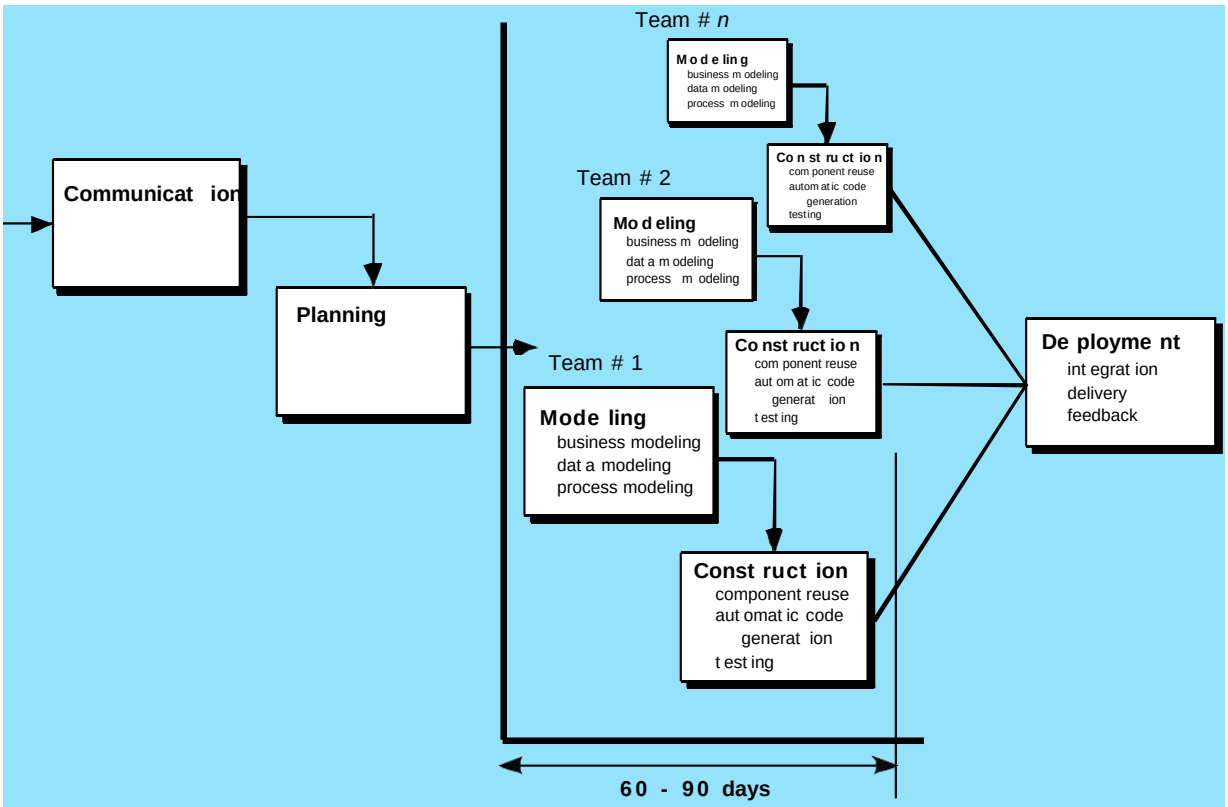
2. Incremental Model



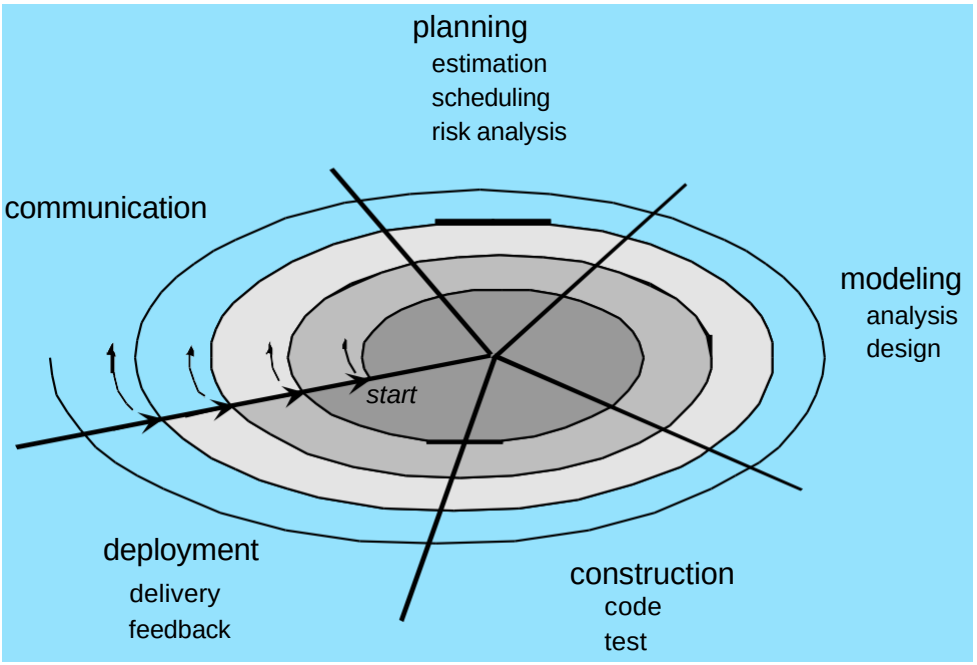
3. Prototyping Model



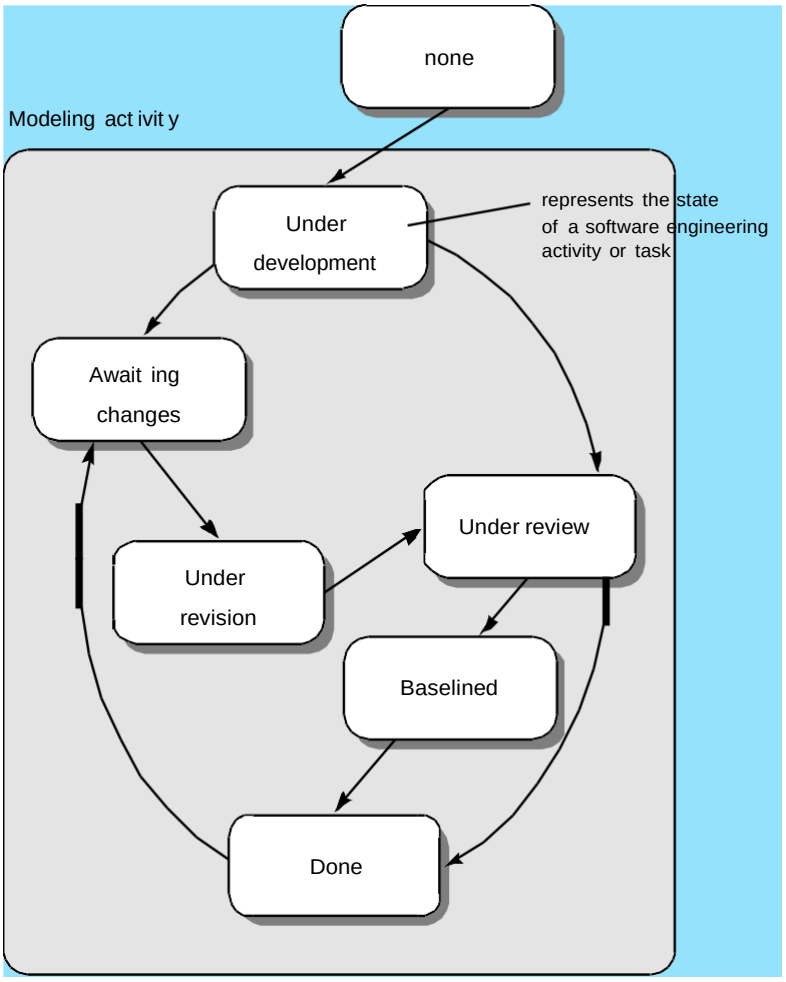
4. RAD Model



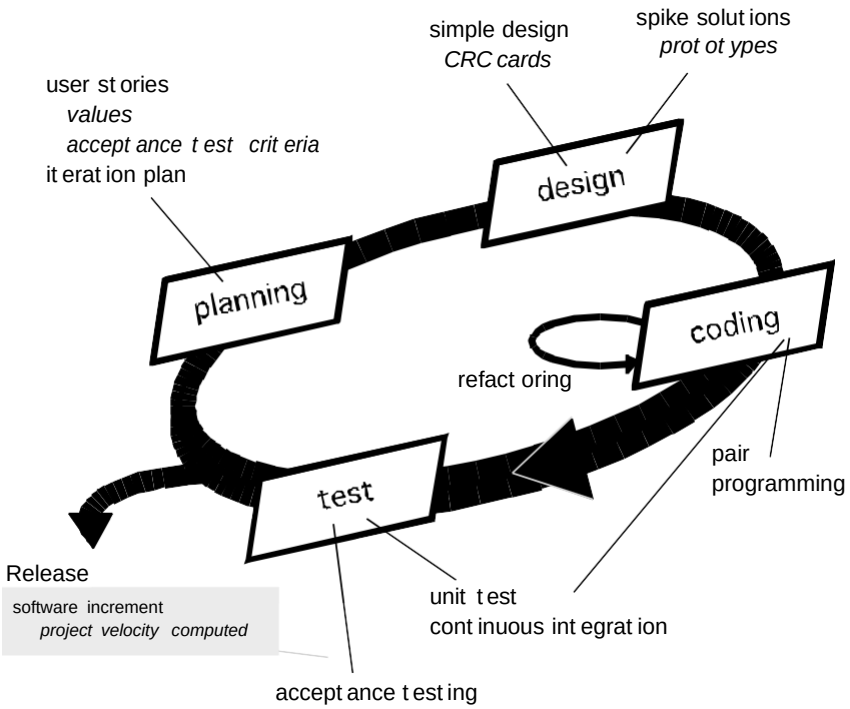
5. Spiral Model



6. Concurrent model



7. Agile Model - XP



8. Agile Model – Scrum
9. Agile Model – DSDM
10. Agile Model – ASD

Abstract:
The main aim of this case study is to develop a news application which provides handy news data to the consumers based on their geolocation, making the application interactive and appealing to the consumers while keeping them notified about all the latest news updates. It also gives accurate knowledge about the authenticity of the news and thus predicting whether the news is fake or not.

Features:

1. Providing news to the users based on different categories such as business, sports, entertainment etc. and also bifurcating them as local and global news.
2. Providing news in form of videos of short span duration
3. Local news based on the geolocation of the consumer within certain range and allowing them to subscribe to the particular news
4. Allowing users to post content on the platform so that other users can notify the general public about the recent updates in their locality with a check on nudity, vulgarity and slur content.
5. A recommendation system based on the viewing content of the consumer.

Overview: Vast amount of news data is available every minute throughout the internet. It often happens that the important news heads are missed in this huge lake of data. Hence it becomes quite important to have a platform that can segregate the news which is most relevant to the users depending on the immediate impact it is creating on the user and his/her preferences. Users living in a certain area, based on their location can be directly notified in bulk about news such as train mega blocks, severity of pollution or locality hit health problems. The huge chunk of news can also make the users life easy by having the required checks on the quality of data. This application can also be particularly useful for travel enthusiasts who can get the jist of happenings in their surroundings of which they are totally unaware. All in all it can make the user experience quite rich with the quality linking of news with the users data.

Process Models : Agile Model, Incremental Model, Spiral model Our choice: Agile Model
JUSTIFICATION:

Why not Incremental Model:

1. News applications need to be constantly updated with the latest news and information. Incremental development may not be able to keep up with the rapid pace of news delivery and updating.
2. News applications often have a high degree of interdependence between the different components. An incremental development approach may result in frequent disruptions and rework, which can lead to inefficiencies and delays.
3. News applications are expected to be accurate and reliable, and errors or inaccuracies can result in significant consequences. An incremental development approach may increase the risk of errors and inconsistencies, particularly when making changes to the application's core functionality.

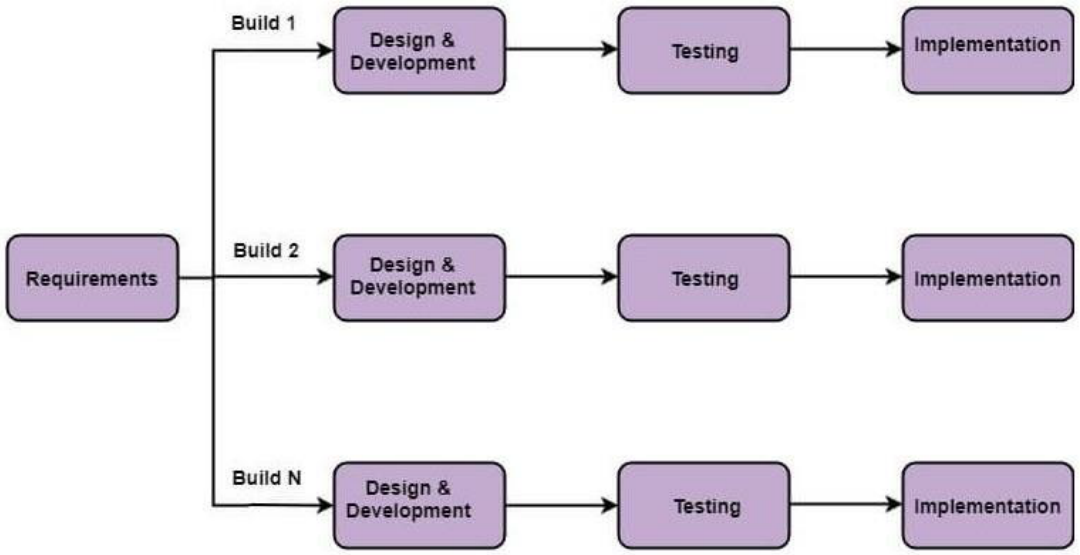
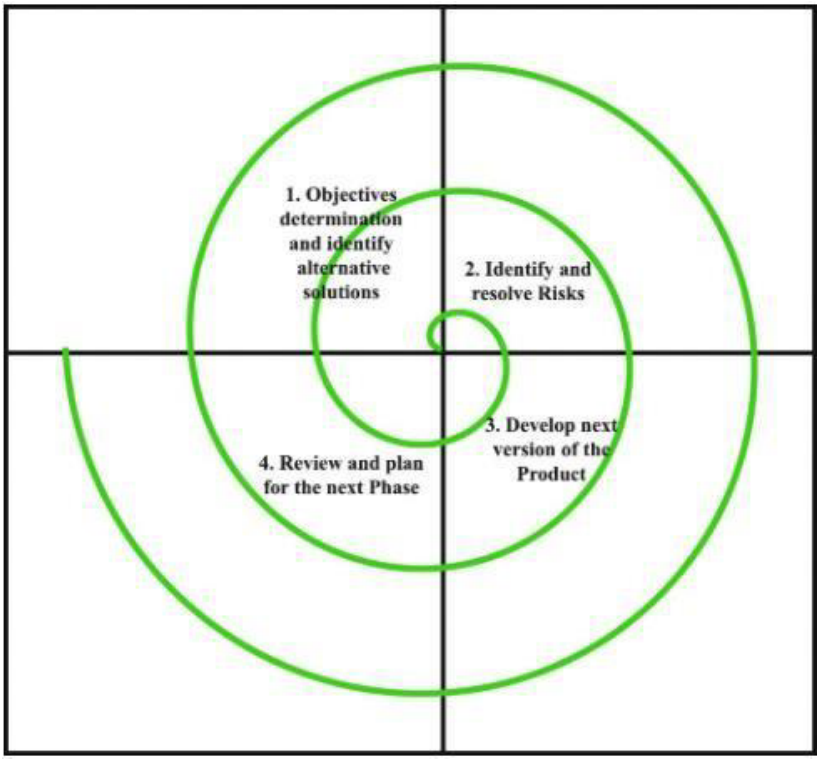


Fig: Incremental Model

Why not the Spiral Model:

1. News applications need to be developed quickly to keep up with the fast-paced nature of the news industry. The spiral model, with its focus on risk management and iterative development, may not be able to keep up with the required pace of development.
2. News applications have a clear scope and set of requirements that need to be met. The spiral model, with its focus on flexibility and iterative development, may not be well-suited for meeting the specific requirements of a news application.
3. News applications are typically developed on a limited budget, and the spiral model's emphasis on risk management and iterative development may result in increased costs due to additional testing and development cycles.
4. News applications are typically developed on a tight timeline to ensure that they can be released quickly and provide up-to-date information. The spiral model's focus on risk management and iterative development may result in delays that can impact the application's usefulness and relevance.



Why the Agile Model:

1. News applications need to be developed quickly to keep up with the fast-paced nature of the news industry. The Agile model allows for rapid development through iterative cycles of planning, development, testing, and deployment.
2. News applications must be adaptable to changing requirements, and the Agile model's emphasis on flexibility and collaboration allows for changes to be incorporated into the development process quickly.
3. News applications require a collaborative approach to development, involving multiple stakeholders such as journalists, editors, and developers. The Agile model's emphasis on collaboration between cross-functional teams ensures that all stakeholders have a voice in the development process.
4. News applications require continuous improvement to remain relevant, and the Agile model's iterative development approach allows for continuous improvement through regular feedback and testing.
5. News applications must be reliable and accurate to ensure that users can trust the information provided. The Agile model's focus on testing and continuous improvement helps to ensure that the application meets high-quality standards.

Academic Year: 2023_24

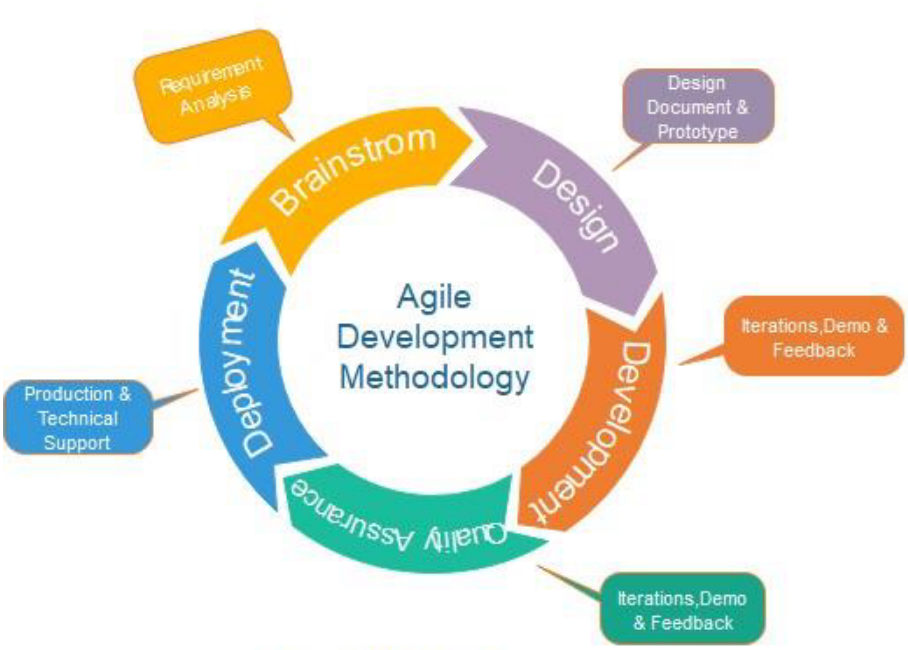


Fig. Agile Model

Conclusion: In this experiment we have studied various process model and are able to apply suitable process model for our application.