# Assignment 01

**Requirement Life Cycle for Customer Segmentation Model for Jio Telecom App**

**1. Elicitation**

**- Objectives: Gather detailed requirements from stakeholders, including marketing teams, customer service, and data analysts.**

**- Methods: Conduct interviews, surveys, and workshops to identify key segmentation goals (e.g., age, usage patterns, geographic location).**

**- Output: Comprehensive list of user needs and expectations regarding customer segmentation.**

**2. Analysis and Documentation**

**- Objectives: Analyse collected requirements to define clear, actionable specifications.**

**- Activities: Categorize requirements (functional, non-functional), create user stories, and develop use cases.**

**- Output: Requirements specification document that outlines the customer segmentation model's objectives and functionalities.**

**3. Validation and Verification**

**- Objectives: Ensure that the requirements align with business objectives and are feasible.**

**- Activities: Review requirements with stakeholders, conduct feasibility studies, and use prototyping if necessary.**

**- Output: Validated requirements that stakeholders agree upon and are ready for development.**

**4. Prioritization and Negotiations**

**- Objectives: Prioritize requirements based on business value, feasibility, and urgency.**

**- Activities: Use techniques like MoSCoW (Must have, should have, could have, Won't have) for prioritization.**

**- Output: Prioritized list of requirements that guides development efforts and resource allocation.**

**5. Change Management**

**- Objectives: Manage changes to requirements throughout the project lifecycle.**

**- Activities: Establish a change control process to evaluate the impact of changes on project scope, timeline, and costs.**

**- Output: Updated requirements documents reflecting approved changes, along with change logs.**

**6. Communication and Collaboration**

**- Objectives: Foster ongoing communication among stakeholders to ensure alignment and transparency.**

**- Activities: Schedule regular meetings, use collaboration tools (e.g., Slack, JIRA), and provide status updates.**

**- Output: Enhanced stakeholder engagement and timely feedback on development progress.**

**7. Traceability and Impact Analysis**

**- Objectives: Maintain traceability of requirements throughout the project to assess their impact.**

**- Activities: Create a requirements traceability matrix linking each requirement to its source and related use cases.**

**- Output: Documented traceability that helps in evaluating the impact of changes or issues during development.**

**8. Implementation and Testing**

**- Objectives: Develop the customer segmentation model and ensure it meets requirements.**

**- Activities: Code the model, conduct unit tests, and perform integration testing with existing systems.**

**- Output: Functional customer segmentation model that is tested and ready for validation.**

**9. Validation and Acceptance**

**- Objectives: Validate the model against the original requirements to ensure it meets stakeholder needs.**

**- Activities: Conduct user acceptance testing (UAT) with stakeholders and gather feedback.**

**- Output: Accepted model that stakeholders approve for deployment.**

**10. Deployments and Maintenance**

**- Objectives: Deploy the customer segmentation model into the production environment and ensure its continued operation.**

**- Activities: Plan and execute deployment, monitor the model's performance, and address any issues.**

**- Output: Operational customer segmentation model with ongoing support and maintenance procedures.**

**11. Retirement and Archival**

**- Objectives: Retire the model when it is no longer effective or needed and archive relevant documentation.**

**- Activities: Evaluate performance metrics, transition to new systems if applicable, and securely store project documentation.**

**- Output: Archived project materials and a plan for any transition to new systems or models.**

**Conclusion**

**Following this requirement life cycle ensures that the customer segmentation model for the Jio Telecom app is developed systematically, aligns with business objectives, and meets user needs effectively.**