Develop an Overall Model

**Entry Criteria**

- Domain Experts, Chief Programmers, and the Chief Architect have been selected for the project.

**Tasks**

- Form the Modeling Team (Project Manager)
- Conduct a Domain Walkthrough (Project Manager)
- Study Documents (Modeling Team)
- Develop a Team Model (Project Manager)
- Refine the Overall Model (Modeling Team)
- Write Model Notes (Chief Architect, Chief Programmer)

**Verification**

- Internal and External Assessment (Modeling Team, Business)

**Exit Criteria**

- The modeling team must develop an object model to the satisfaction of the Chief Architect. The model consists of class diagrams, sequence diagrams (if any) and explanatory notes.

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Build a Feature List

**Entry Criteria**

- The modeling team has successfully completed process 1: Develop an Overall Model

**Tasks**

- Form the Feature List Team (Project Manager, Development Manager)
- Develop Small Group Models (Modeling Team in Small Groups)
- Study Documents (Modeling Team)
- Develop the Sequence Diagram(s) (Feature Team)
- Refine the Object Model (Chief Programmer)
- Write Class and Method Prologue (Feature Team)

**Verification**

- self Assessment (Planning Team, Project Manager)

**Exit Criteria**

- The feature list team must produce the feature list to the satisfaction of the Project Manager. The feature list consists of a list of major feature sets (areas), a list of features within each feature set.

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Plan By Feature

**Entry Criteria**

- The feature list team has successfully completed process 2: Build a Feature List

**Tasks**

- Form the Planning Team (Project Manager)
- Determine the Development Sequence (Planning Team)
- Assign Feature Sets to Chief Programmers (Planning Team)
- Assign Classes to Developers (Planning Team)
- Refine the Object Model (Chief Programmer)
- Write Class and Method Prologue (Feature Team)

**Verification**

- Design Inspection (Feature Team)

**Exit Criteria**

- The planning team must produce the development plan to the satisfaction of the Project Manager and Development Manager. The development plan consists of feature sets with completion dates, Chief Programmers assigned to feature sets, a list of classes and the developers that own them.

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Design By Feature

**Entry Criteria**

- The planning team has successfully completed process 3: Plan By Feature

**Tasks**

- Form a Feature Team (Chief Programmer)
- Conduct a Domain Walkthrough (Domain Expert)
- Study the Reference Documents (Feature Team)
- Develop The Sequence Diagram(s) (Feature Team)

**Verification**

- Design Inspection (Feature Team)

**Exit Criteria**

- The feature team must produce a successfully inspected design package. The design package comprises: a covering memo that integrates and describes the design package, the referenced requirements (if any) in the form of documents, memos and supporting documentation, design alternatives (if any), the latest object model, the class and method protocols (pseudo code) created during the process and a to-do task list on affected classes for each team member.

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Build by Feature

**Entry Criteria**

- The feature team has successfully completed process 4: Design By Feature for each of the selected features.

**Tasks**

- Implement Classes and Methods (Feature Team)
- Conduct a Code Inspection (Feature Team)
- Unit Test (Feature Team)
- Promote to the Build (Chief Programmer, Feature Team)

**Verification**

- Code Inspection and Unit Test (Chief Programmer, Feature Team)

**Exit Criteria**

- The feature team must complete the development of one or more features (client-valued functions). To do this, it must have promoted to the build the set of new and enhanced classes that support those features, and those classes must have been successfully code inspected and unit tested.