

Research Project (Comp8790)

Timeline schedule

presented
By
Hassan Almari

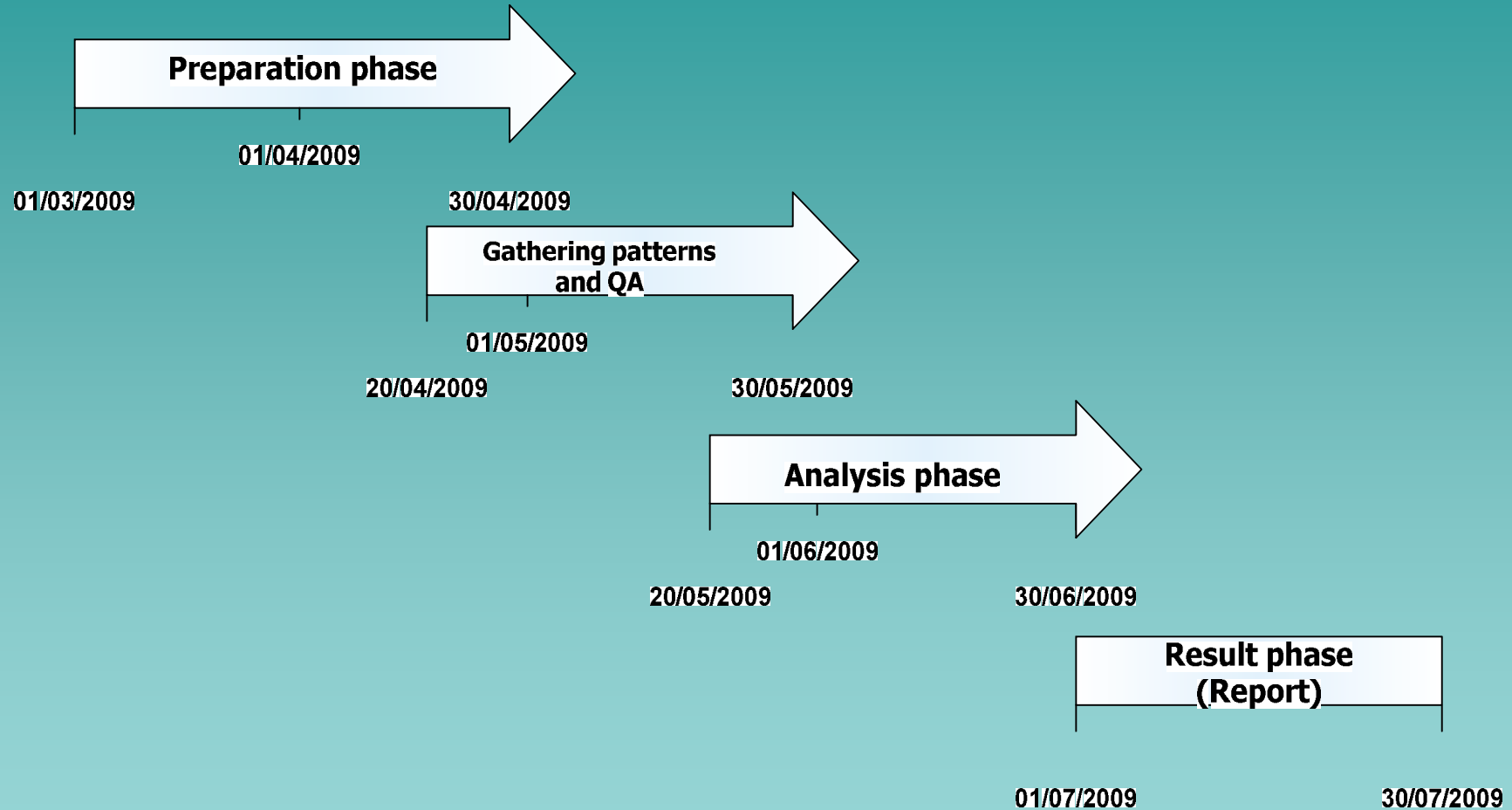
Project title

**Investigation
of
the relationship between software (architecture/design)
patterns and quality attributes**

Project Scope

- **Identifying and comparing core software architecture and design patterns can be very helpful for software development. Enabling designers and developers to choose the right patterns for the right project or application is a far more effective reusability technique than pure code reuse.**

Project timeline



Some detail on the timeline

- **Preparation phase**

1. What are patterns? **Started**
2. History of the patterns and their sources. **Started**
3. What are the Quality attributes means? **Started**
4. Quality attributes how many & what each one mean in software environment.
5. Start recognition of the relation between QA with the patterns

Due date 30 April 2009

- **Second Phase**

- Gathering the software patterns and identify which quality attributes they support.

1. What is the difference between (architectures and designs) patterns.
2. Architectures patterns in software filed.
3. Design patterns in software filed.
4. Previous patterns relationship with the main quality attributes.

Due date 30 May 2009

Project timeline

- Analysis phase (most important phase)
 - Analyzing the patterns (chosen patterns) makes relation between patterns styles, patterns fields and patterns relationship with the quality attributes.
 - This especial phase will be decided later to be in abstraction level or application level studies and test cases, if it will be in the first round abstraction level then it will take the end of this semester, then if the project goes to apply the research in application level so it will extend to the end of the year. The result from the latter will be very helpful to build concrete concept about the patterns and there uses in system context.

Due date 30 June 2009 Or 15 Feb 2010

- Result phase
 - Building matrix that explain that relations in software context it will be a result of the previous phase.

Due date 30 July 2009 or 30 Feb 2009 depend on the analysis phase

Questions?

Thank you