GR Viewer Implementation Tasks (until UCAAT 2015)	Effort (days)
1. Mappings for elements with simple shapes: Comment, AnnotationType, SimpleDataType, Time, SimpleDataInstance, GateType, GateInstance, ComponentInstance, Connection, TestObjective	0.5
2. Composite shapes – rectangles inside rectangles laid out according to custom algorithm specified in GR.	1
2.1. Mappings for elements with composite shapes: Package, Annotation, TestObjective, StructuredDataType, StructuredDataInstance, Action, DataResourceMapping, DataElementMapping, TestConfiguration, ComponentType, TestDescription	0.5
3. Sequence diagram	2
3.1. Viewer specific MM extensions needed to represent lifelines	0.5
3.2. Viewer specific MM extensions needed to represent both begin and end of blocks	0.5
3.3. Mappings: Interaction	1
4. Action shapes across all lifelines – by default, actions are placed on a single life-line, but TDL GR specifies that actions should cover all life-lines	1
4.1. left aligned icons in actions shapes – need custom layout policy	0.5
4.2. Mappings: Wait, Quiescence, TimerStart, TimeOut, TimerStop, Break, Stop, VerdictAssignment, Assertion, ActionReference, InlineAction, Assignment, TestDescriptionReference	0.5
5. Block shapes (combined fragments)	1
5.1. Floating labels in blocks (guard, period)	0.5
5.2. Mappings: CombinedBehaviour, Block, CompoundBehaviour, BoundedLoopBehaviour, UnboundedLoopBehaviour, AlternativeBehaviour, ConditionalBehaviour, ParallelBehaviour, DefaultBehaviour, InterruptBehaviour, PeriodicBehaviour	0.5
6. Data expressions in sequence diagram	1
6.1. Iintegration with Xtext-based serializer	1
6.2. Mappings: DataUse and sub-classes	0.5
7. Automation: diagram creation, image export	2
8. Mixed font labels	0.5
8.1. Mappings: Function	1
9. Nodes attached to lifelines in sequence diagrams	1
9.1. Mappings: TimeLabel, TimeConstraint	1
10. Nested block shapes	2
11. Coincident arrow shapes for multicast interactions	1.5
12. Floating variable assignment labels for interactions (only required for multicast interactions)	0.5
Optimistic total	22
Pessimistic (+20%)	4.4
Expected total	26.4

	GR Viewer Implementation Tasks (until UCAAT 2015)	Effort (days)
1	Shapes	12
2	Mappings	6
3	Diagrams	4
	Optimistic total	22
	Pessimistic (+20%)	4.4
	Expected total	26.4

	Papyrus Editor Implementation Tasks	Effort (days)
1	Diagram specialisation	10
2	Static profile implementation	1
3	Element type implementation	12
	Optimistic total	23
	Pessimistic (+20%)	4.6
	Expected total	27.6

Detailed information available in separate document (PapyrusDesginAndImplementationPlan.docx)

	Outstanding Implementation Tasks (beyond UCAAT 2015)	Effort (days)
1	Layout of diagrams (GR)	5
2	Distribution of elements across diagrams (GR)	3
3	Textual editor (?)	5
4	Validation (standalone)	3
5		
6	Editing test objectives	5
7	Exporting test objectives (Word)	4
8	Extending test objectives (additional constructs)	3
9	External data translation (ASN.1, XML)	4
10	XF support	2
11	TR, documentation	15
12		
	Optimistic total	49
	Pessimistic (+20%)	9.8
	Expected total	58.8

Pessimistic (+20%)	0.2			