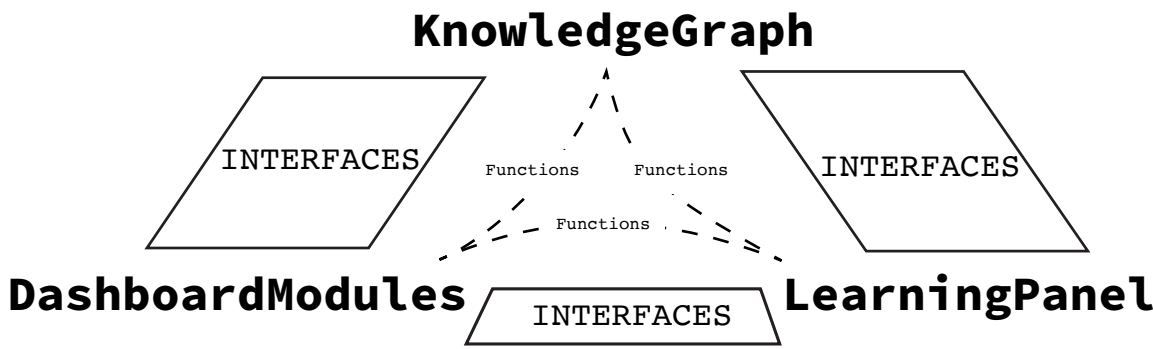


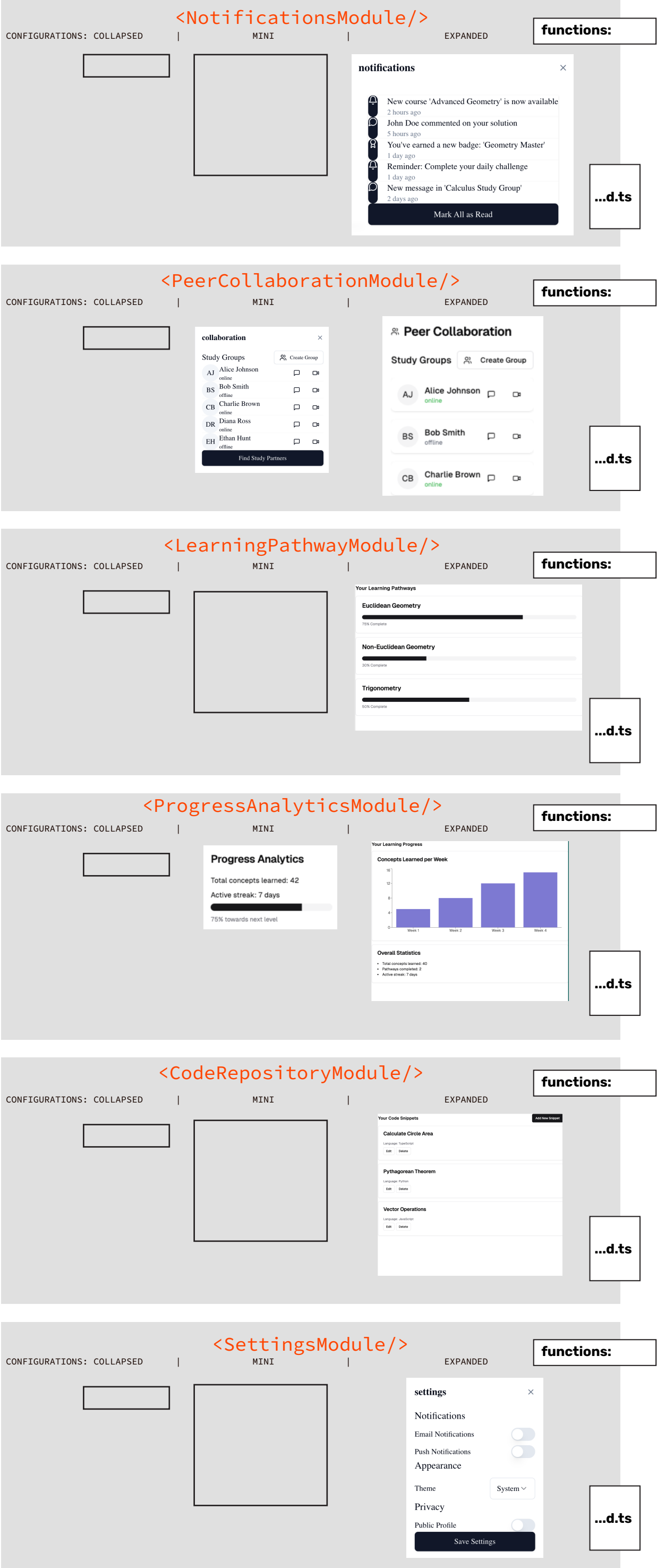
FractalMath Application System Architectrue

Three Systems:



Three Systems Decomposed into Containers:

DashboardModules



DashboardModules

```
<ProgressAnalyticsModule/>
<CodeRepositoryModule/>
<LearningPathwayModule/>
<NotificationsModule/>
<PeerCollaborationModule/>
<SettingsModule/>
```

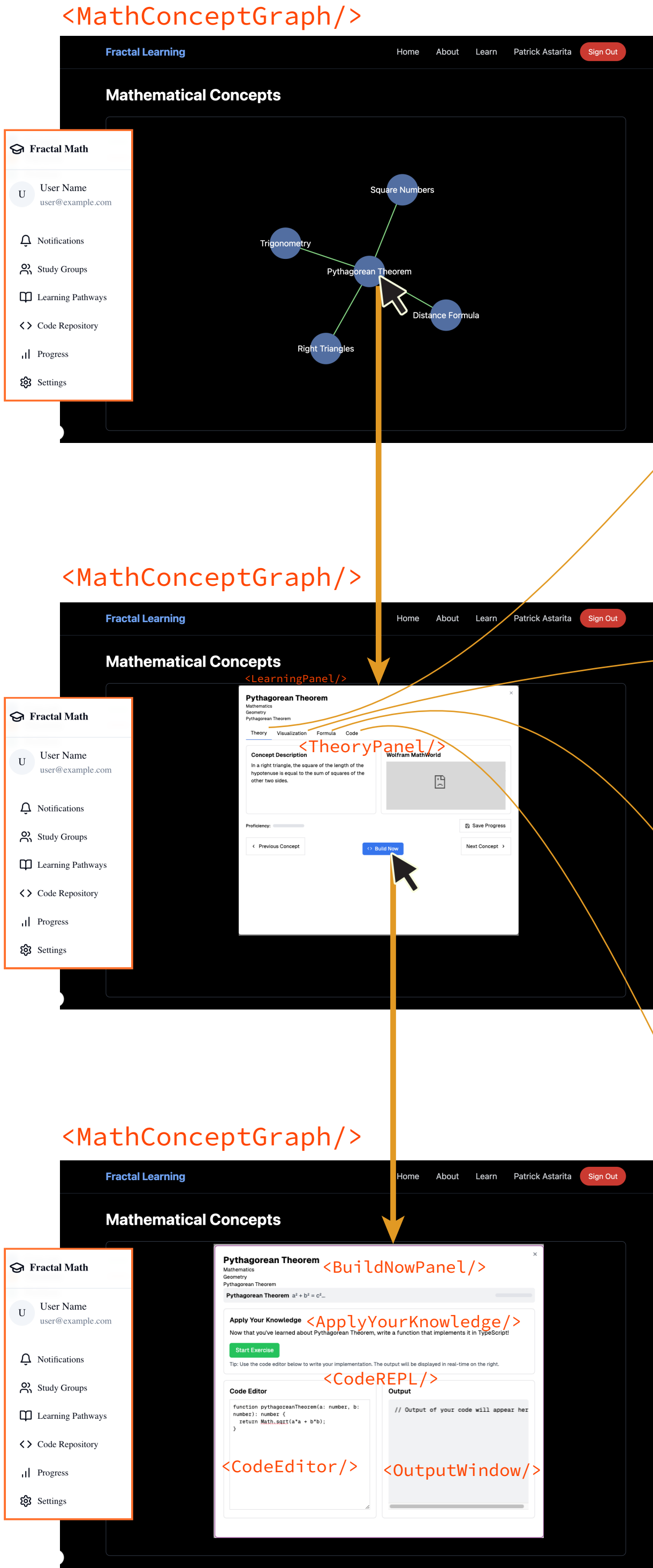
Primitive Components:

KnowledgeGraph

MathConceptGraphic Color Legend

- Concept
- Theorem
- Problem
- Prerequisite
- Child

Core User Flow

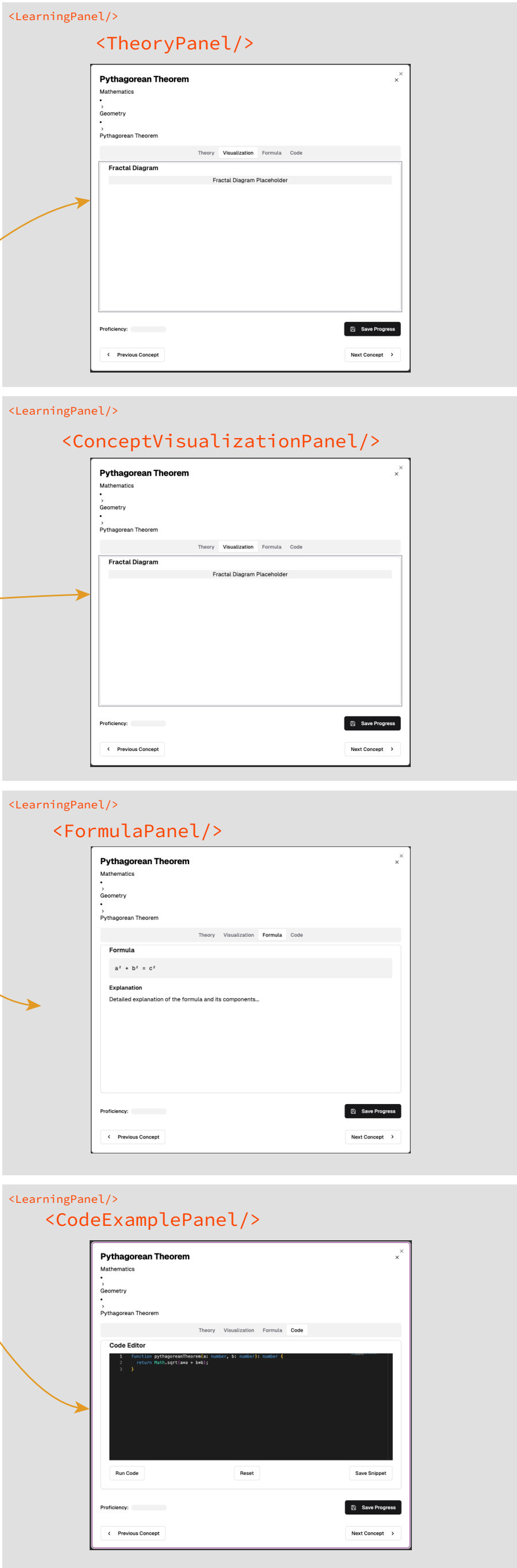


KnowledgeGraph

```
<MathConceptGraph/>
<MathConceptNode/>
<MathConceptEdge/>
```

Primitive Components:

LearningPanel



LearningPanel

```
<LearningPanel/>
<TheoryPanel/>
<FormulaPanel/>
<ConceptVisualizationPanel/>
<CodeExamplePanel/>
<BuildNowButton/>
<BuildNowPanel/>
  <ApplyYourKnowledge/>
  <CodeREPL/>
  <CodeEditor/>
  <OutputWindow/>
```

Primitive Components:

```
<BuildButton/>
<CodeTab/>
<CollapsedTabsRow/>
<FormulaTab/>
<Header/>
<TheoryTab/>
<ProgressTracker/>
<VisualizationTab/>
```