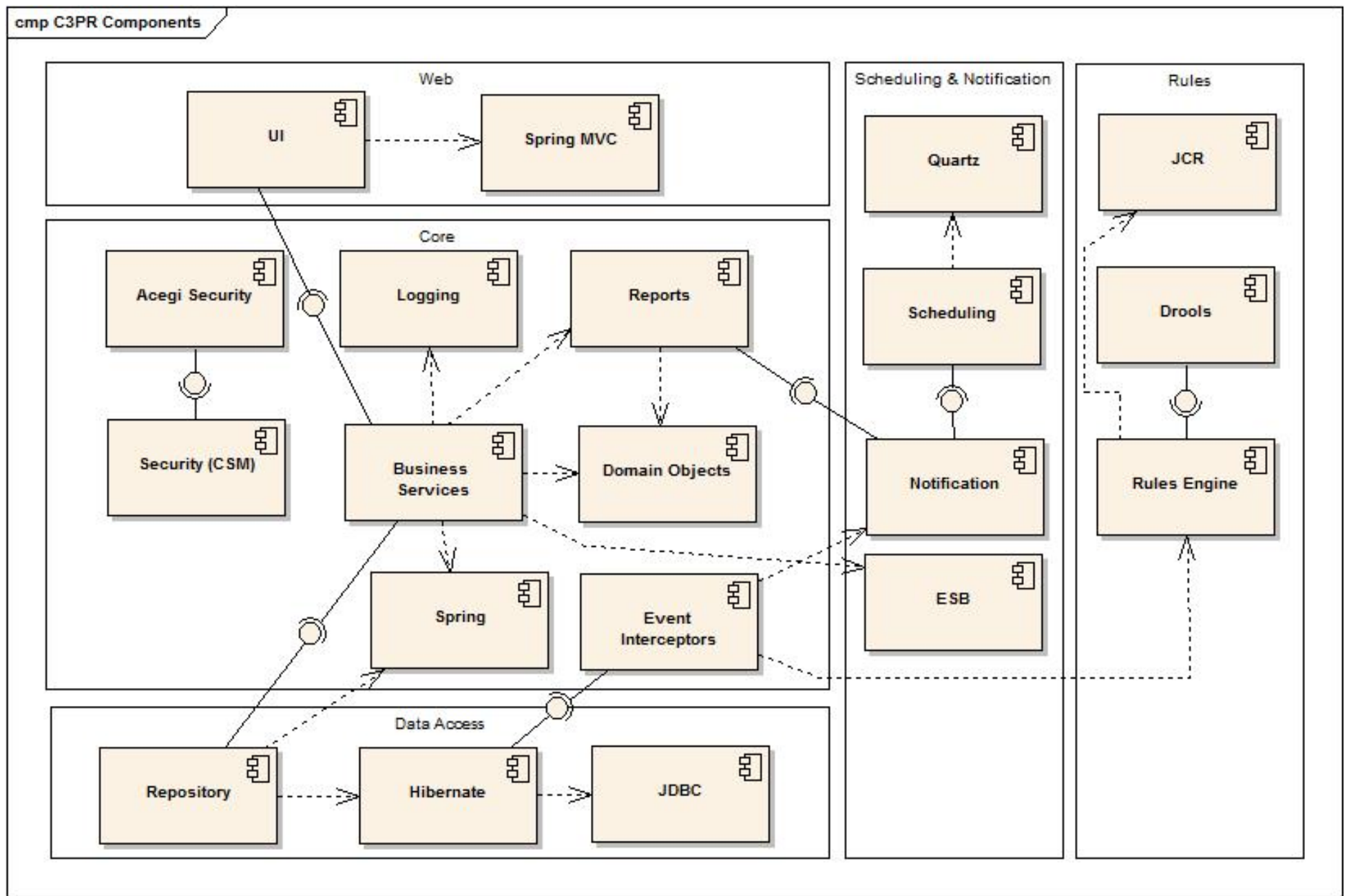
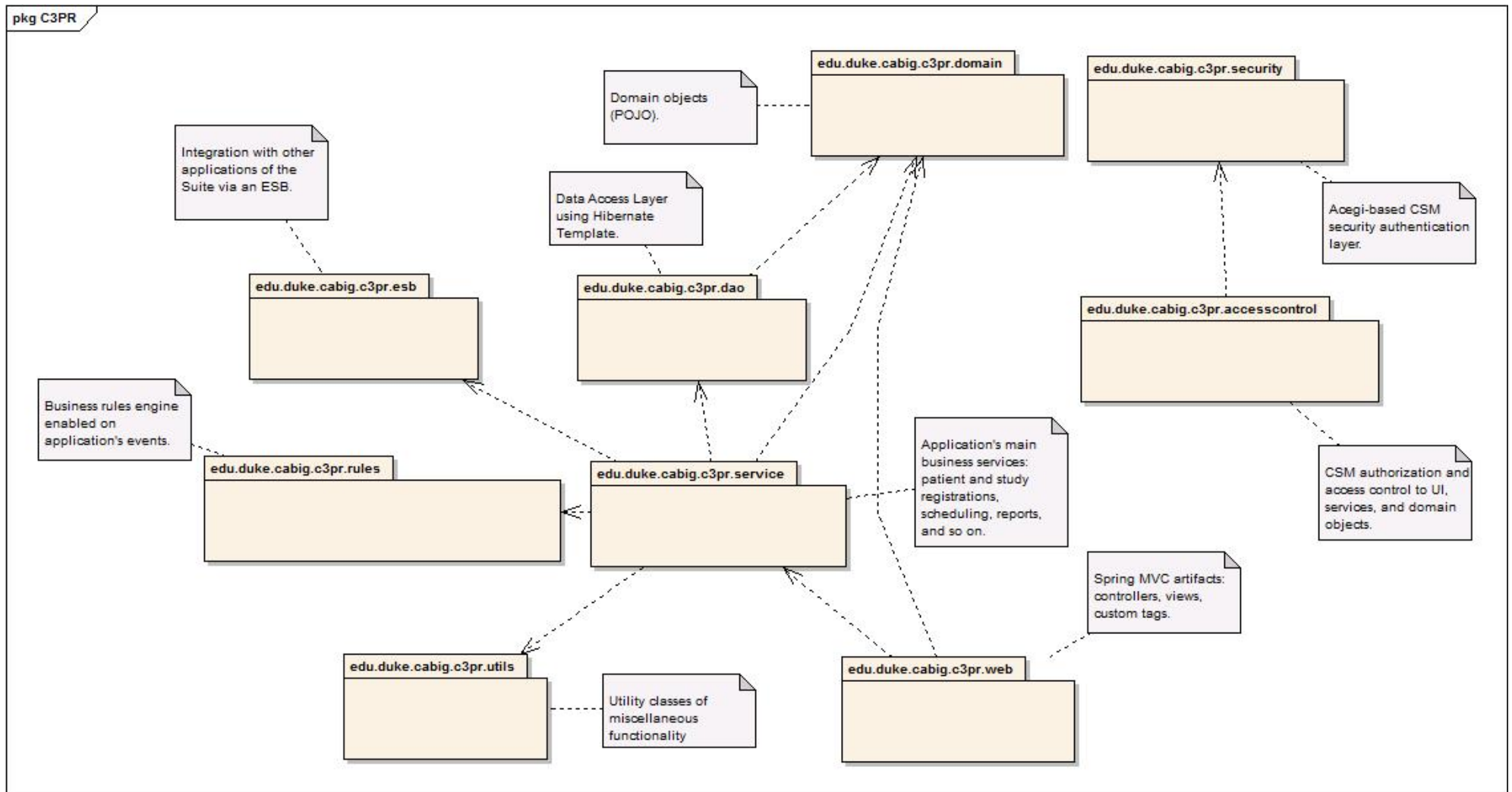


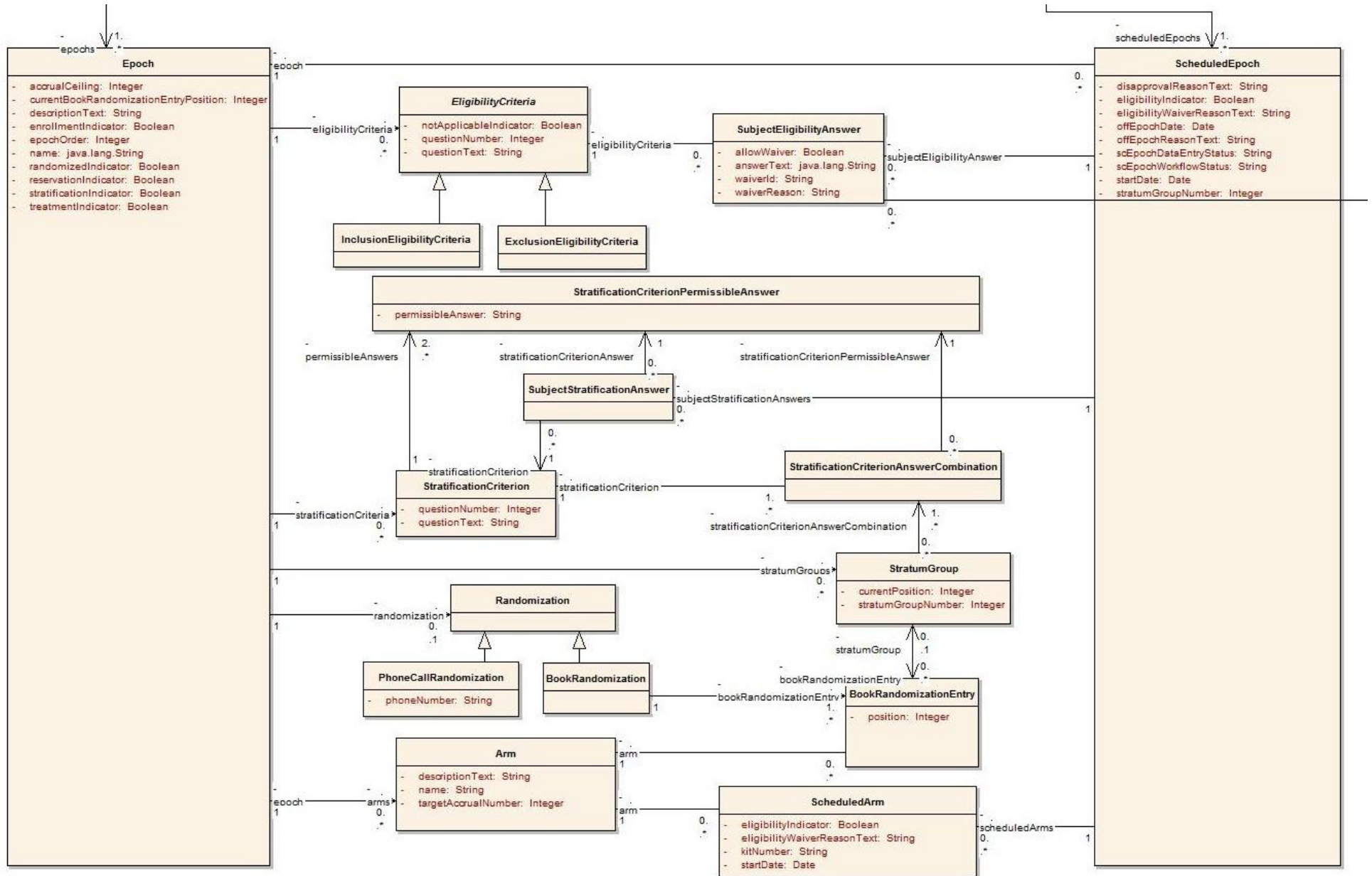
## Components



# Packages

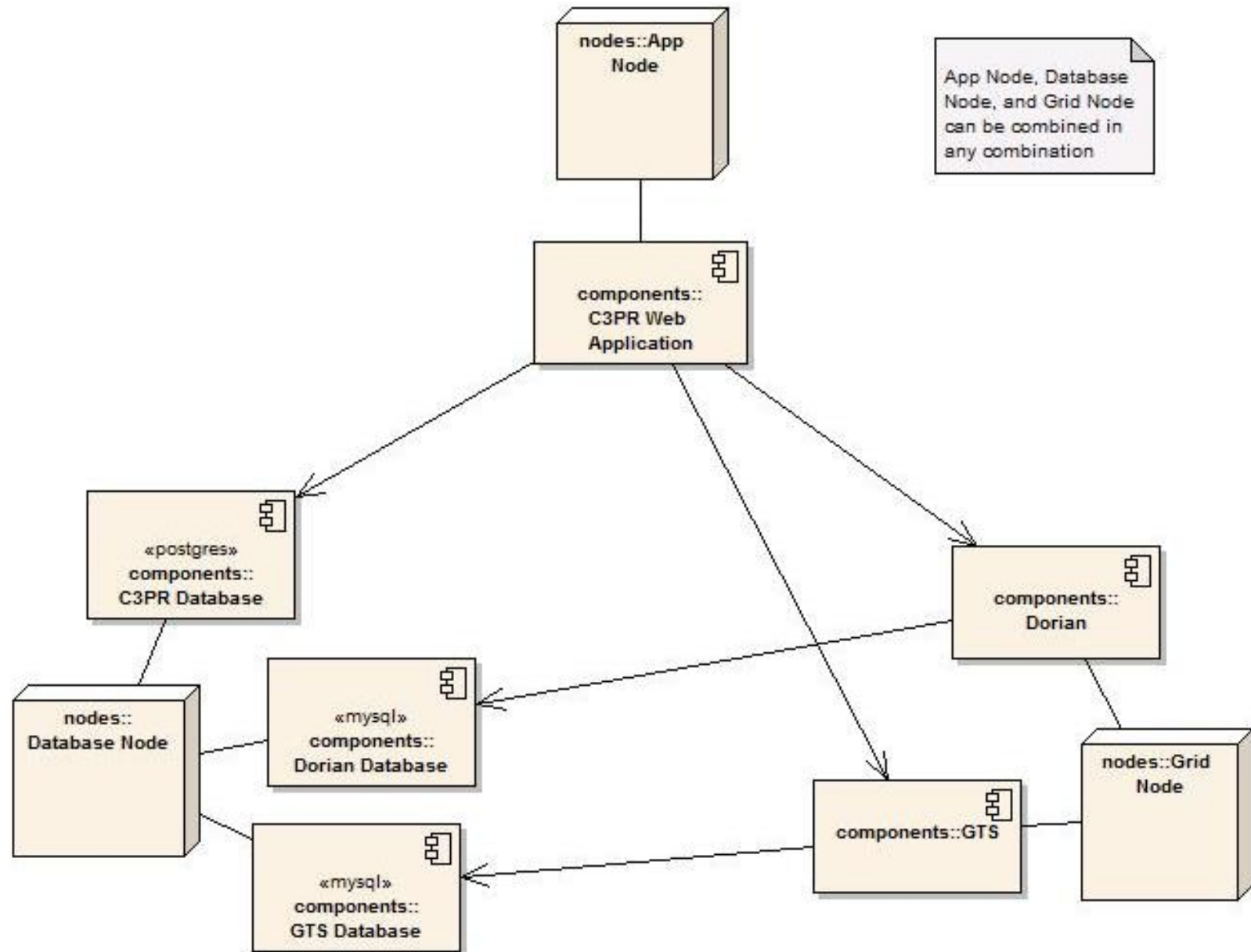


# C3PR Domain Model



## Deployment Diagram

deployment Single Site Grid Deployment Model



## Requirement/Solution Matrix

Requirement	Motivation & Challenges	Solution	Technology	Reasoning
Portability & Platform-Independence  <a href="#">Portability</a>	<ul style="list-style-type: none"> <li>Run reliably on all major platforms and databases</li> </ul>	Platform-independent language & ORM framework	Java/Hibernate	<ul style="list-style-type: none"> <li>Proved platform-independence</li> <li>Portability across databases with little or no changes.</li> </ul>
Event Notification Business Rules	<ul style="list-style-type: none"> <li>Very adaptive to changes in business.</li> <li>Rapid provisioning.</li> <li>Domain-specific authoring of rules.</li> <li>Decoupled from Java source code</li> </ul>	Rules Engine	Drools	<ul style="list-style-type: none"> <li>Spring integration</li> <li>Open-source</li> <li>Strong financial backing</li> <li>Large community</li> </ul>
Reports & Notifications	<ul style="list-style-type: none"> <li>Send out reports on a given schedule</li> <li>Reliability (schedule survives server restarts and crashes)</li> <li>Flexible way of describing the schedule</li> </ul>	Scheduling Engine	Quartz	<ul style="list-style-type: none"> <li>Lightweight</li> <li>Integration with Spring and Hibernate</li> <li>Supports CRON syntax</li> <li>Uses database to persist jobs</li> </ul>
Integration with the Suite  <a href="#">Register/Enroll Subject</a>	<ul style="list-style-type: none"> <li>Decoupling from external systems' interfaces</li> </ul>	Enterprise Service Bus	Apache ServiceMix / iHub	<ul style="list-style-type: none"> <li>Consistency: used already by the Suite Applications</li> <li>Standardization (JBI)</li> <li>Open-source</li> </ul>
User Interface	<ul style="list-style-type: none"> <li>UI should be pretty, responsive, and easy to use</li> <li>UI must create an impression of a desktop-like application and avoid unnecessary page refreshes</li> <li>UI must work across browsers</li> </ul>	Web 2.0	AJAX, YUI, Prototype, Scriptaculous	<ul style="list-style-type: none"> <li>Cross-browser JavaScript support</li> <li>Rich widget collection</li> <li>Strong backing</li> <li>Open-source</li> <li>Large community</li> </ul>
Setup & Configuration	<ul style="list-style-type: none"> <li>Application should be easy to configure</li> <li>End users should not deal with complexities of configuration files</li> <li>Configuration should survive re-deployments</li> </ul>	Web-based Setup & Config UI	JSP/AJAX	<ul style="list-style-type: none"> <li>Standard</li> <li>Easy</li> <li>Persistent</li> <li>Reliable</li> </ul>