

# **Visual Code Review**

## **Group 5**

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## 5. Design detail

### 5.1. Class Responsibility Collaborator (CRC) Cards

Class CommitEngine	
Responsibilities	Collaborators
Intercept commit  Check if a commit needs reviewing.  Insert information and source code into the database.	BEDatabase Highlight Transaction

Class BEDatabase	
Responsibilities	Collaborators
Handle connection to the database for the backend of the system.	CommitEngine.

Class Highlight	
Responsibilities	Collaborators
Handle connection to the syntax highlighting engine.	CommitEngine. Pygments

Class FEDatabase	
Responsibilities	Collaborators
Handle the connection to the database, for the frontend of the system.	Login AdminDev AdminBranch RevList RevSingle RevSource

Class Login	
Responsibilities	Collaborators
Authenticate the user.	FEDatabase Standard

Class Standard	
Responsibilities	Collaborators
Provide a standard web page template. Redirect to login page if user is not authenticated.	FEDatabase AdminPage DevPage Login

<b>Class AdminPage</b>	
<b>Responsibilities</b>	<b>Collaborators</b>
Provide a standard web page template for the administrator parts.	Standard AdminDev AdminBranch

<b>Class DevPage</b>	
<b>Responsibilities</b>	<b>Collaborators</b>
Provide a standard web page template for the developer parts.	Standard RevList RevSingle RevSource

<b>Class AdminDev</b>	
<b>Responsibilities</b>	<b>Collaborators</b>
Administrate developers	AdminPage AdminBranch

<b>Class AdminBranch</b>	
<b>Responsibilities</b>	<b>Collaborators</b>
Administrate branches	AdminPage AdminDev

<b>Class RevList</b>	
<b>Responsibilities</b>	<b>Collaborators</b>
List commits available for review	DevPage RevSingle

<b>Class RevSingle</b>	
<b>Responsibilities</b>	<b>Collaborators</b>
List information about a single commit.	DevPage RevList RevSource

<b>Class RevSource</b>	
<b>Responsibilities</b>	<b>Collaborators</b>
Show the source code from a single file in the commit.	DevPage RevList

### 5.1.1. Third party classes

<b>Class Pygments</b>	
<b>Provided by: Pygments.org v. 0.9</b>	
<b>Responsibilities</b>	<b>Collaborators</b>
Syntax highlights source code.	Highlight

<b>Class Transaction</b>	
<b>Provided by: Pysvn.tigris.org v. 1.5.2</b>	
<b>Responsibilities</b>	<b>Collaborators</b>
Extract information from SVN	CommitEngine

## 5.2. Class diagram

The class diagrams are represented using Unified Modeling Language (UML).

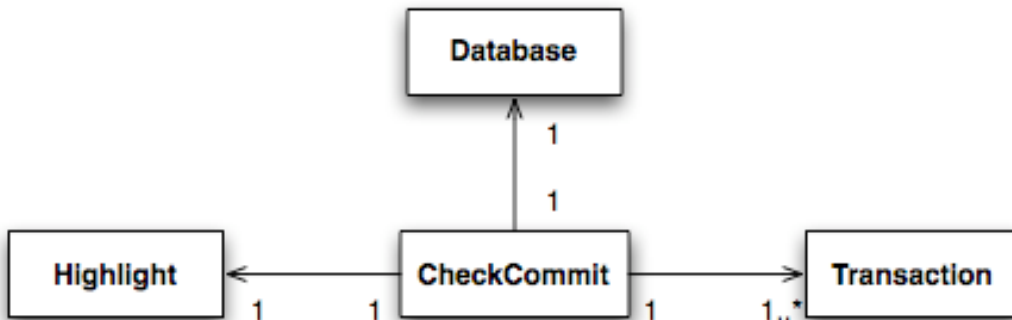


Figure 5.2.1: Backend

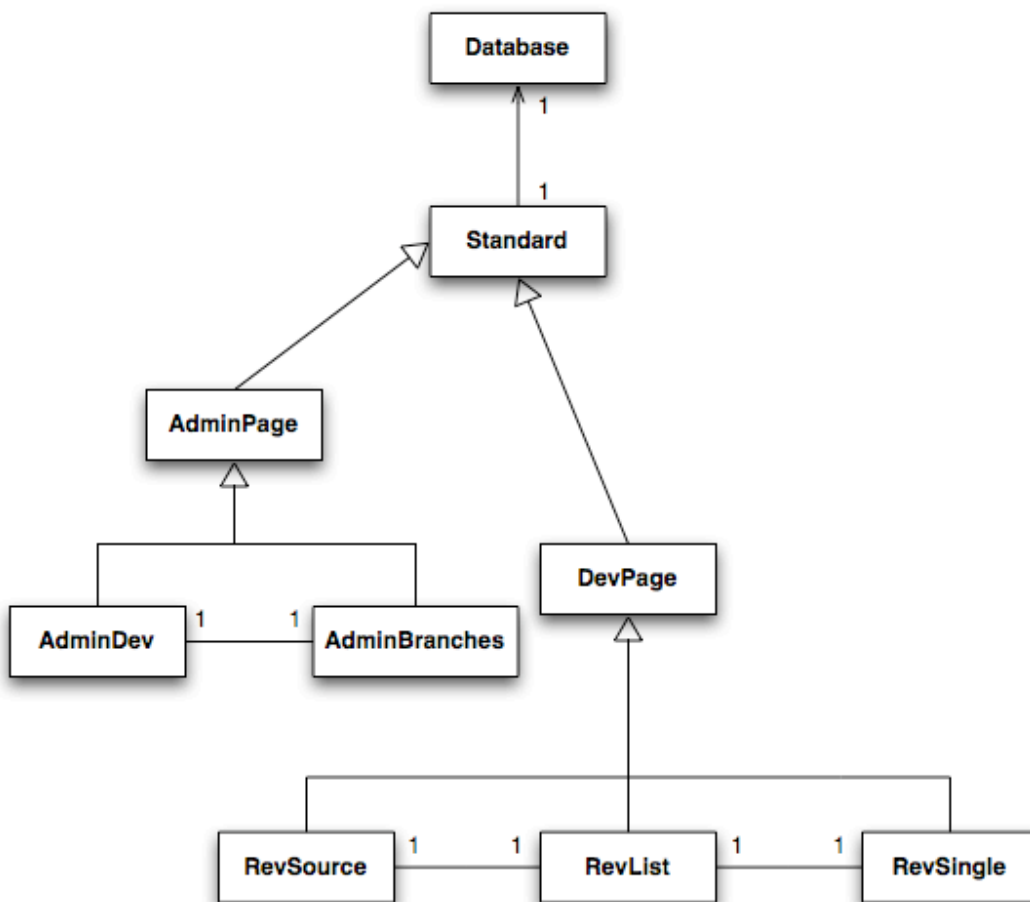


Figure 5.2.2: Frontend

### 5.3. State Chart

The state charts are represented using Unified Modeling Language (UML).

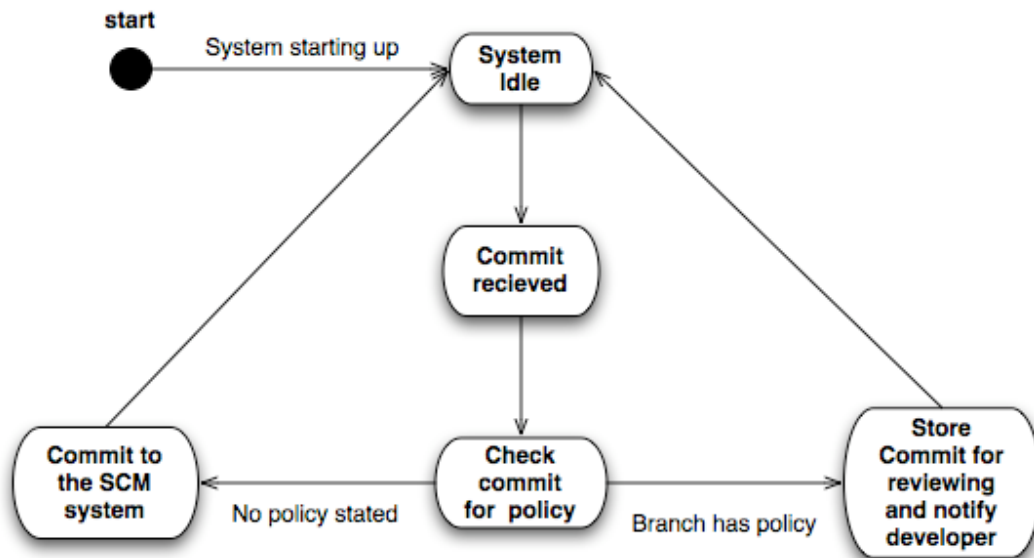


Figure 5.3.1: Commit interception

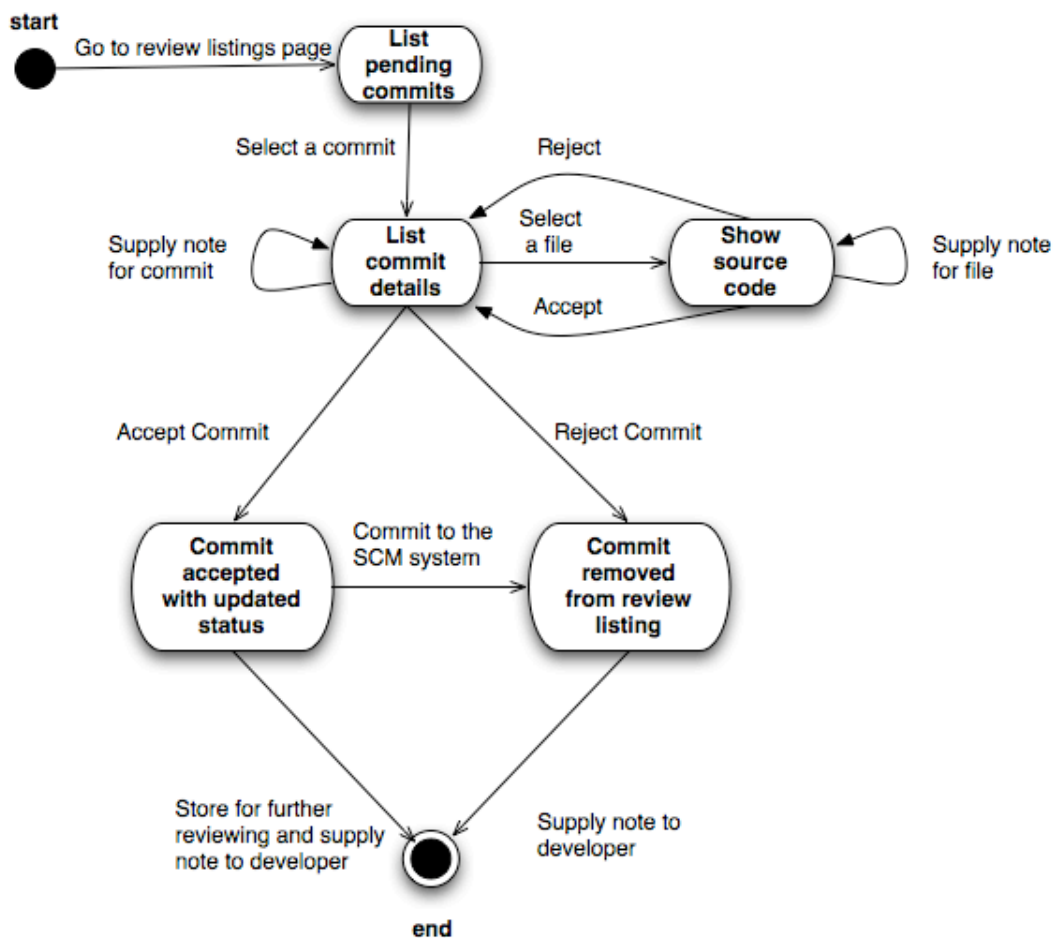


Figure 5.3.2: Review process

## 5.4. Interaction diagram

The interaction diagrams are represented using Unified Modeling Language (UML).

### 5.4.1. Developer Commit

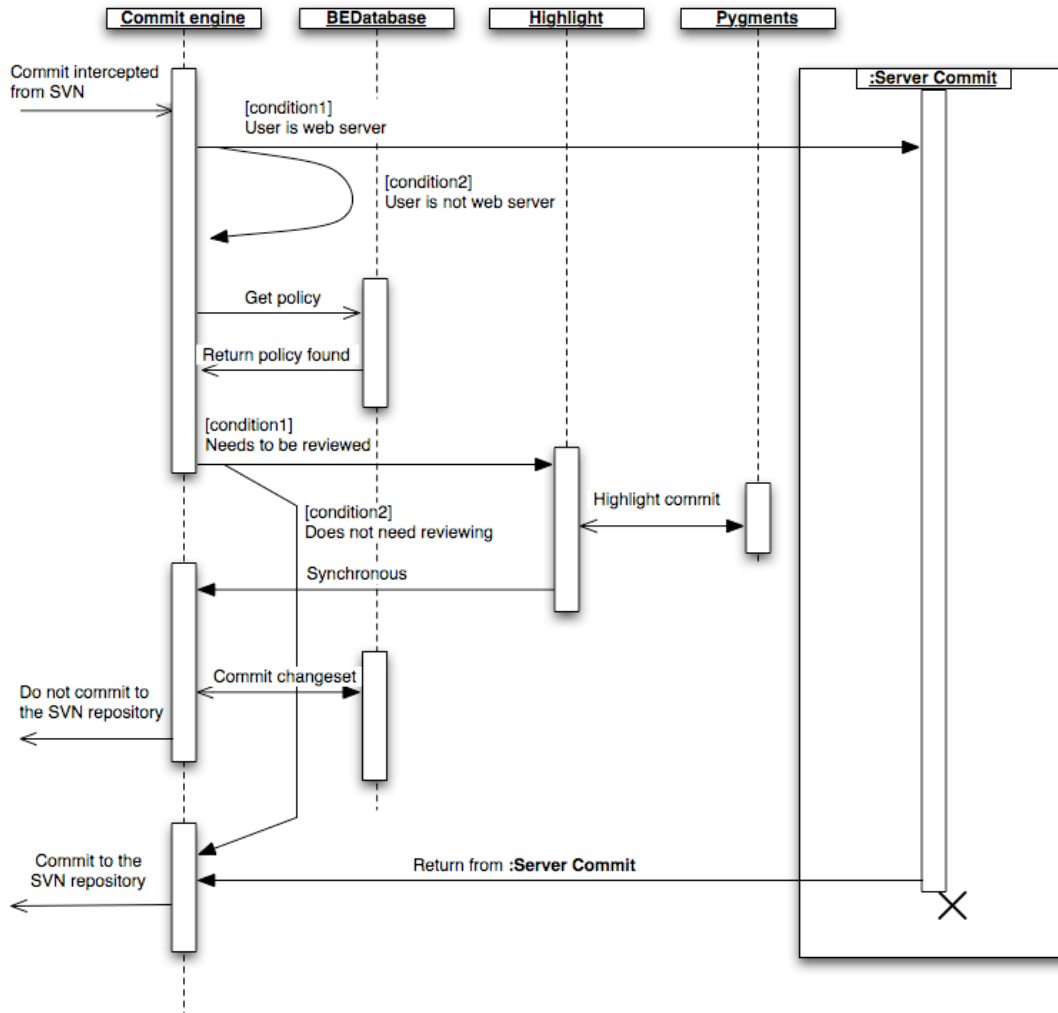


Figure 5.4.1.1

### 5.4.2. Server commit

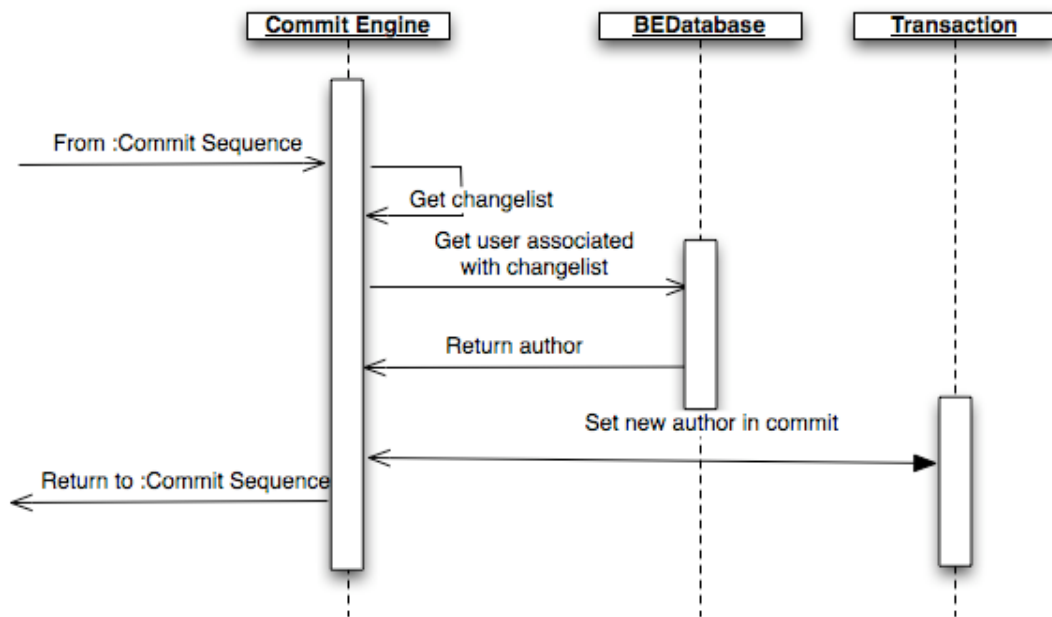


Figure 5.4.2.1

### 5.4.3. Review process

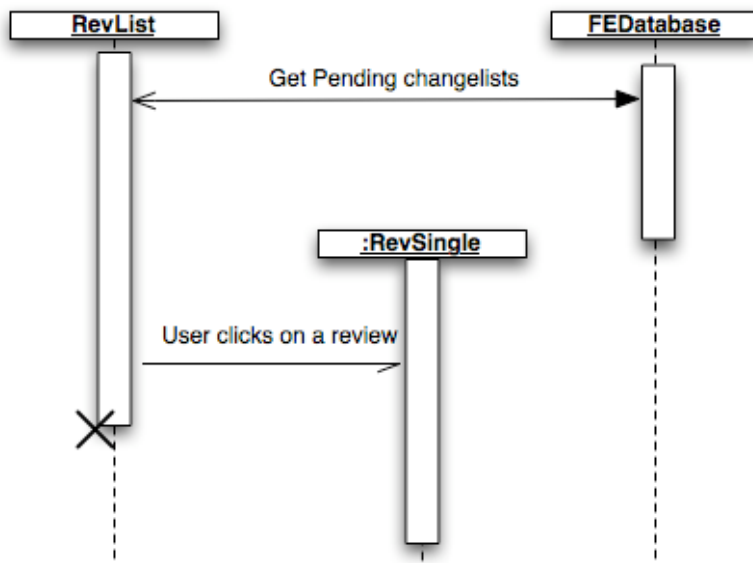


Figure 5.4.3.1



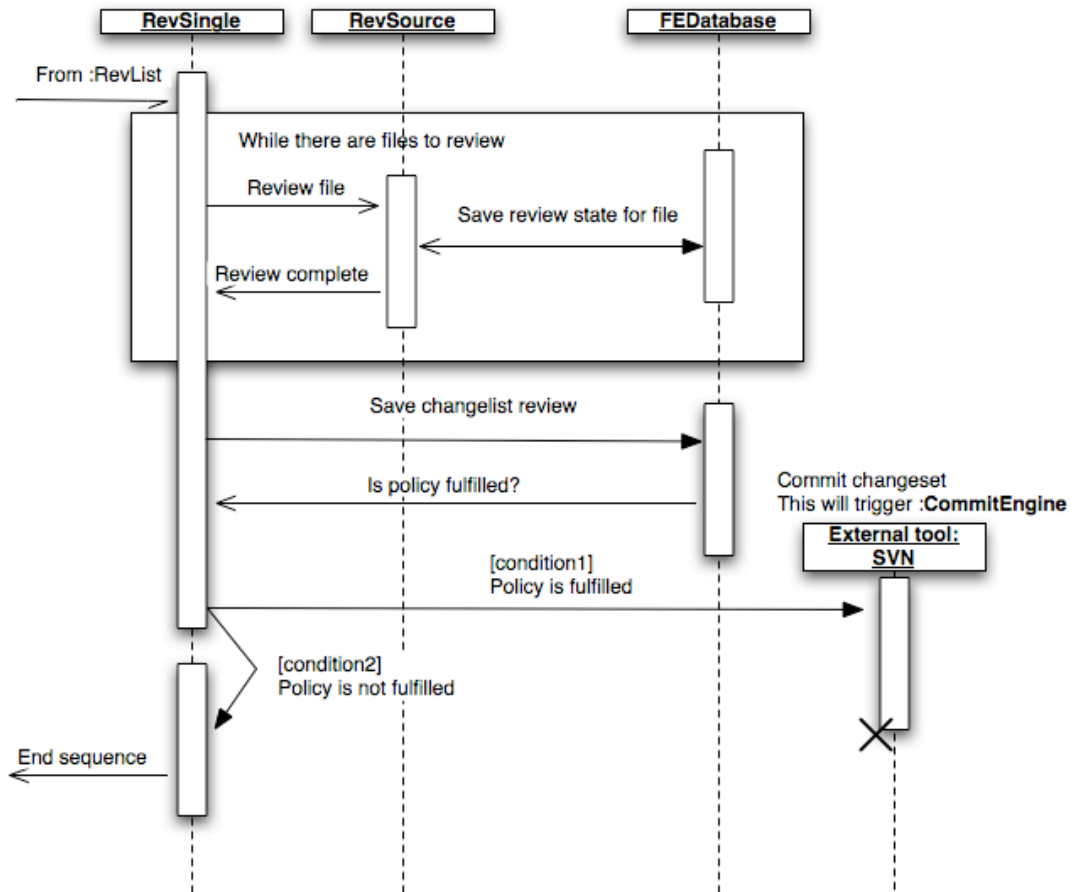


Figure 5.4.3.2