



CONTROL BOARD IN A CONFIGURATION MANAGEMENT SYSTEM

Supporting UML Diagrams

Will Peck
Student Number 159029051

Contents

Article I.	Important Note on Implementation	2
Article II.	State Machine Diagram.....	3
Article III.	Component Diagram	7
Article IV.	Class Diagram	8
Article V.	EER Diagram	9
Article VI.	Bibliography	10

Article I. Important Note on Implementation

The “gradle bootRun” command was not completing successfully on the University system as of 11th January. The application was developed on my own laptop, connecting to a local instance of a MySQL server. On the 10th January, I modified the “dbconfig.java” file to connect to the University database and all builds and tests completed successfully. However; the following day, I was unable to solve a number dependency errors thrown by Gradle. These errors included libraries provided by “java.lang” and appears to be related to differences in the version of Java. I have provided screenshots as evidence:



Article II. State Machine Diagram

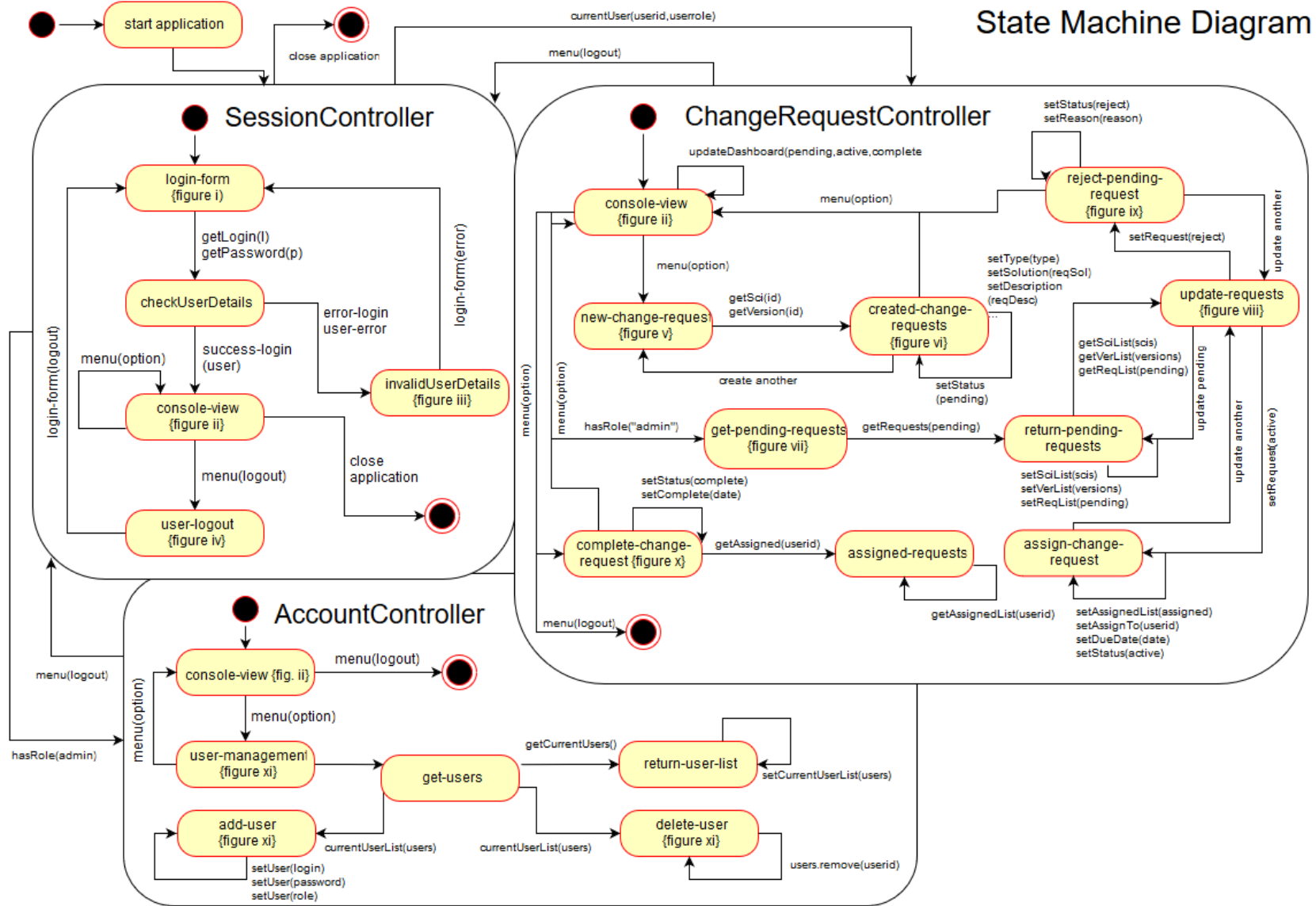


Figure i.

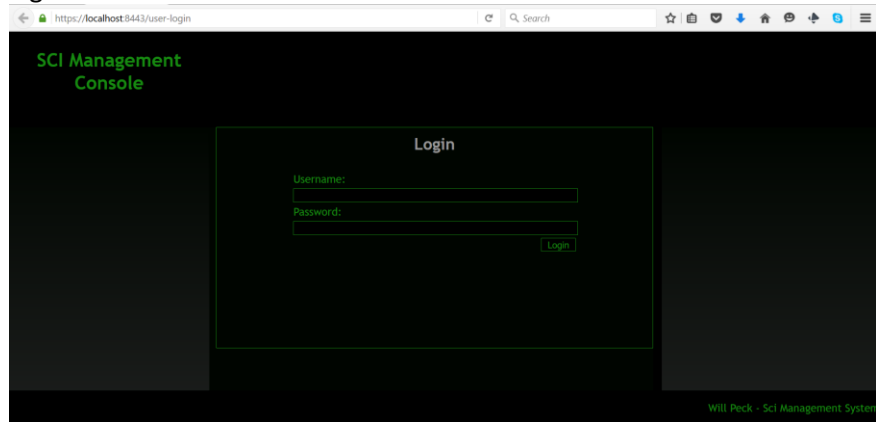


Figure ii.

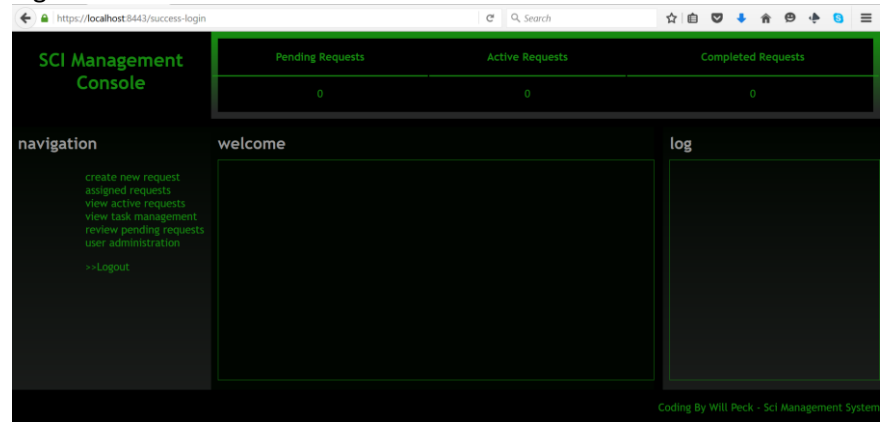


Figure iii.

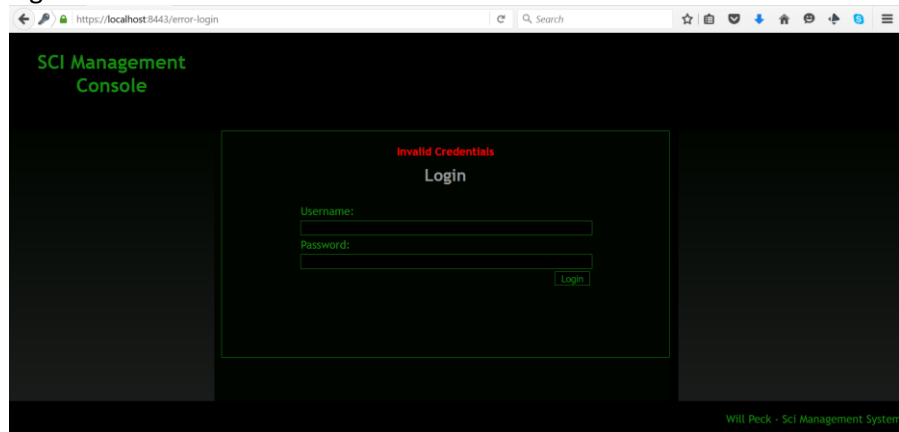


Figure iv.

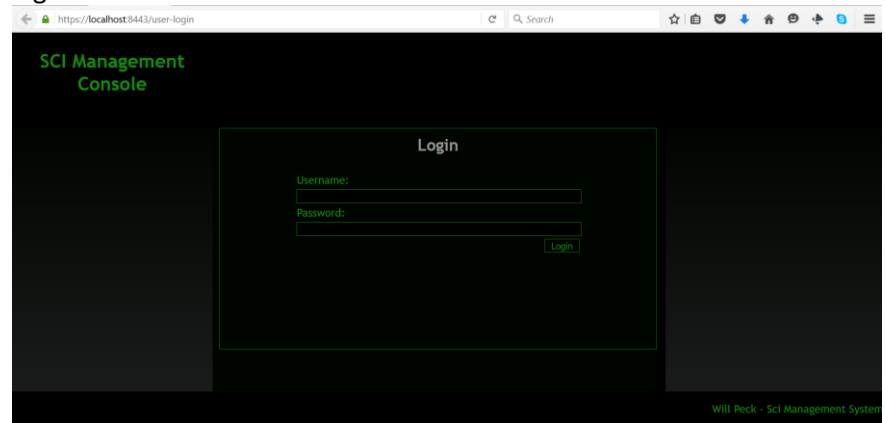


Figure v.

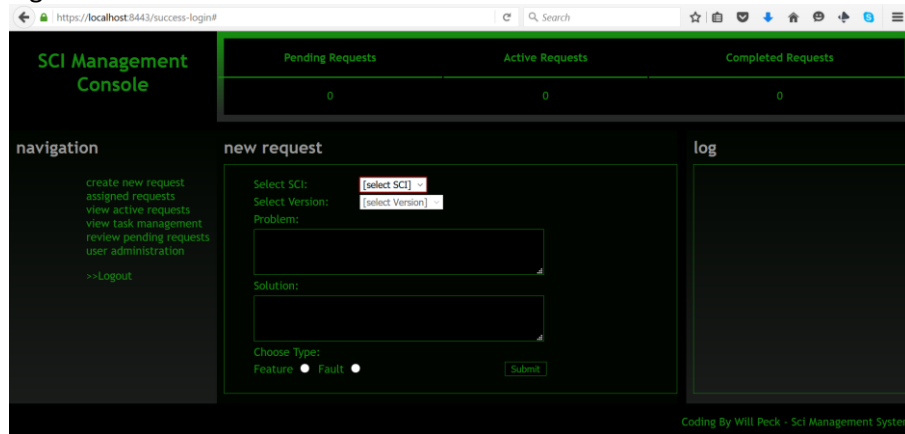


Figure vi.

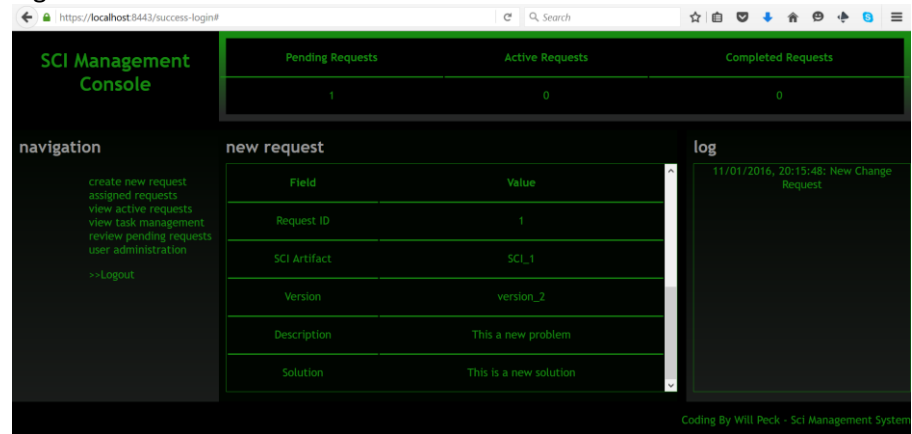


Figure vii.

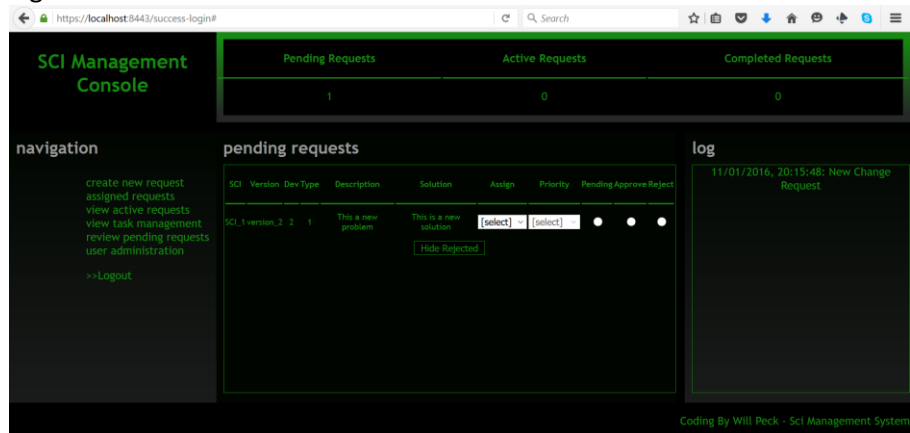


Figure viii.

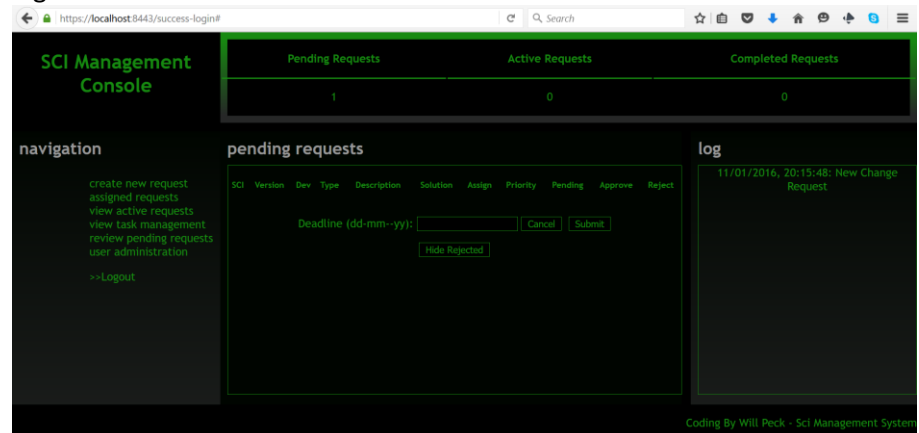


Figure ix.

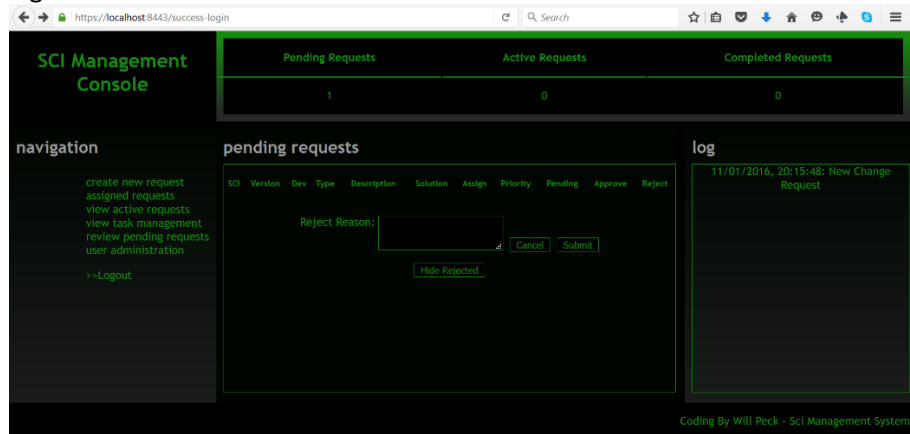


Figure x

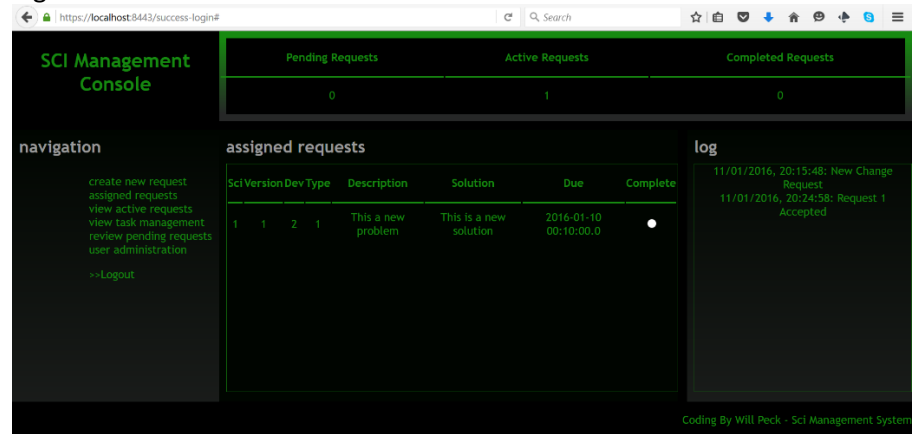
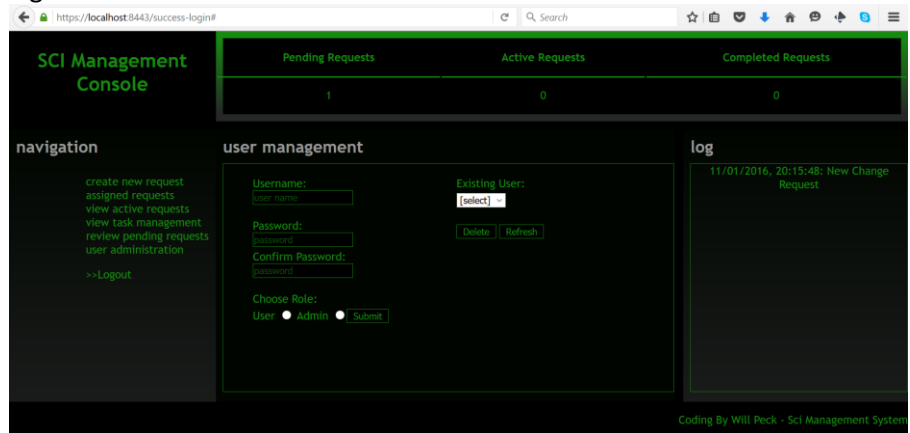
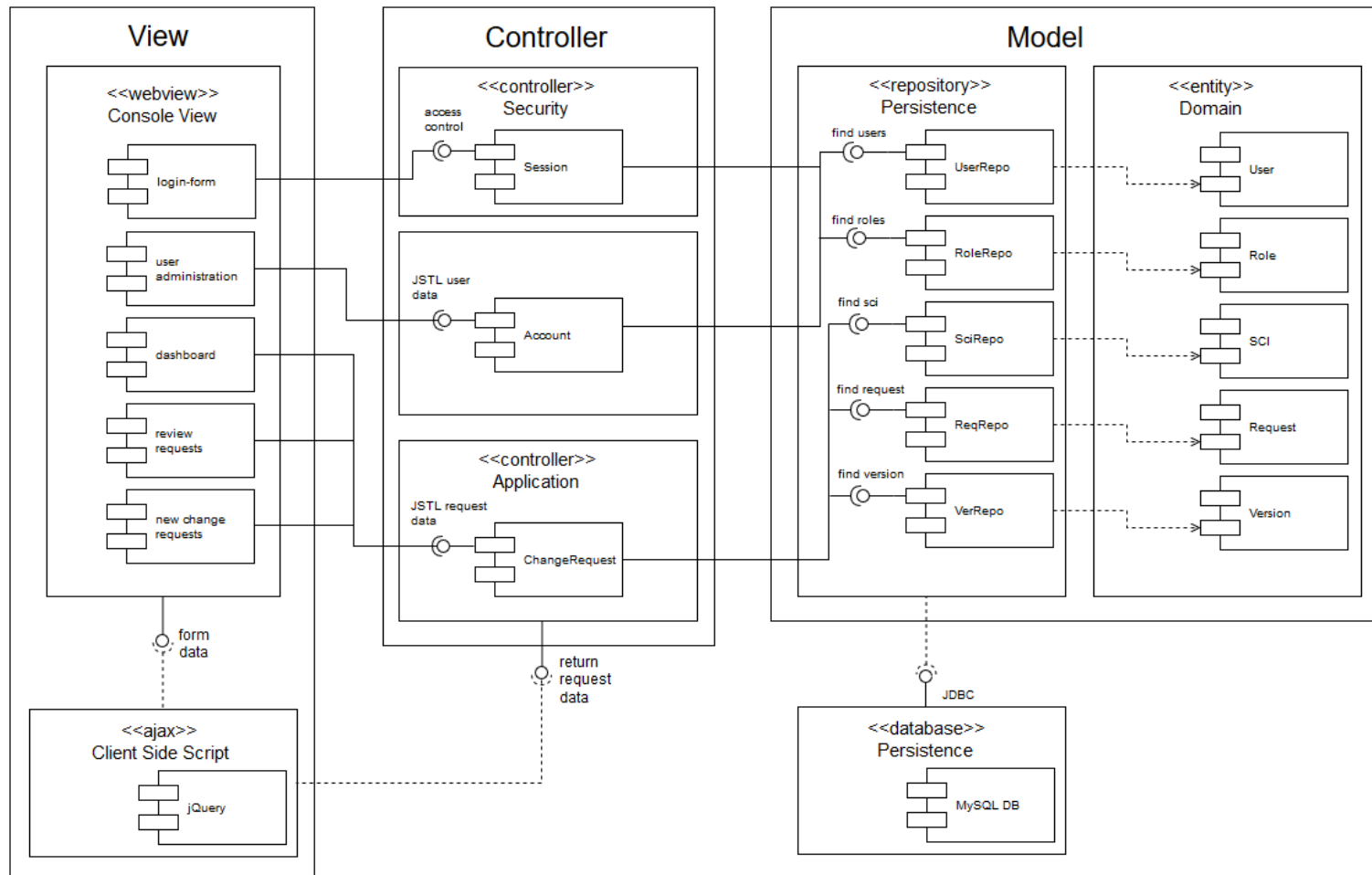


Figure xi.

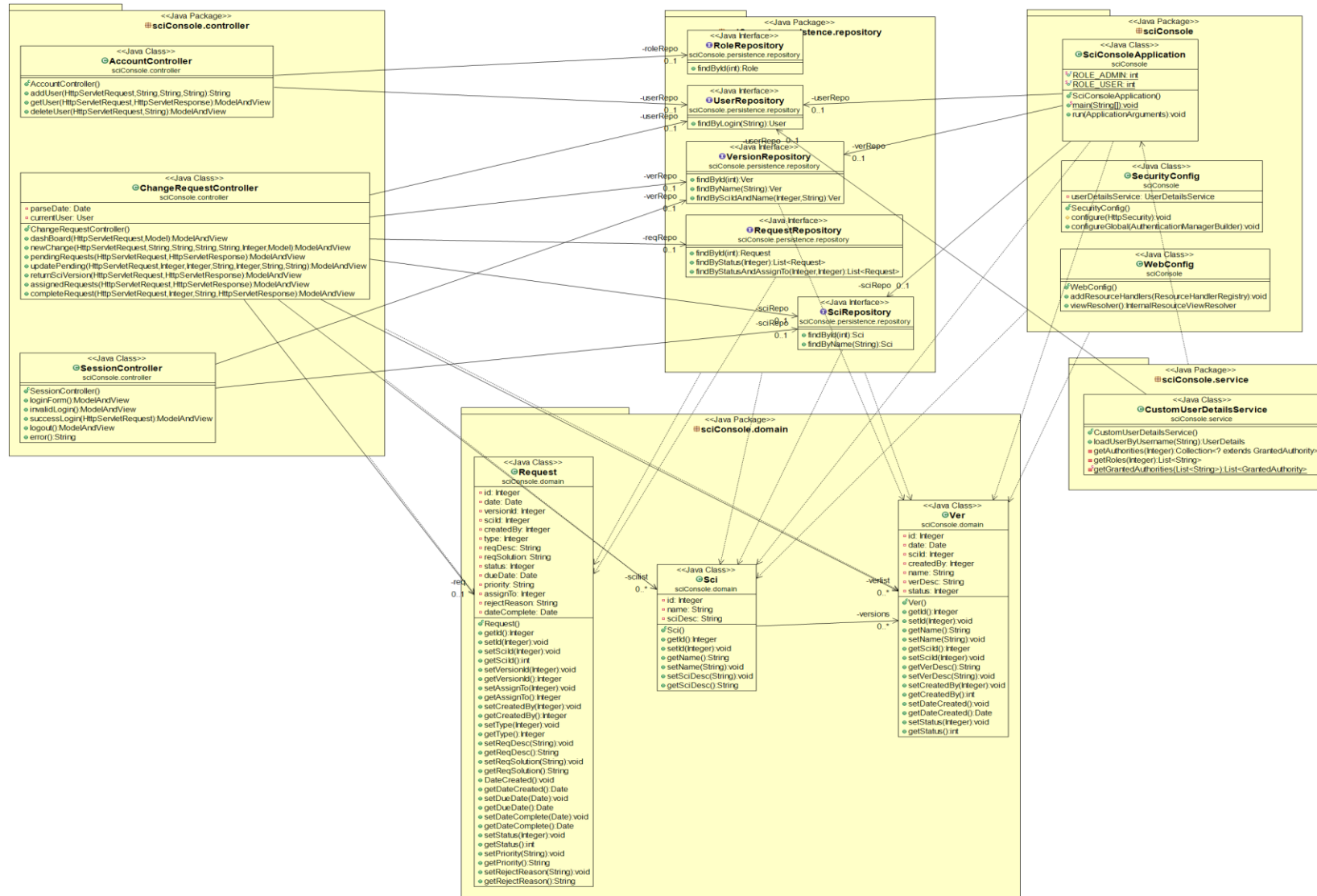


Article III. Component Diagram

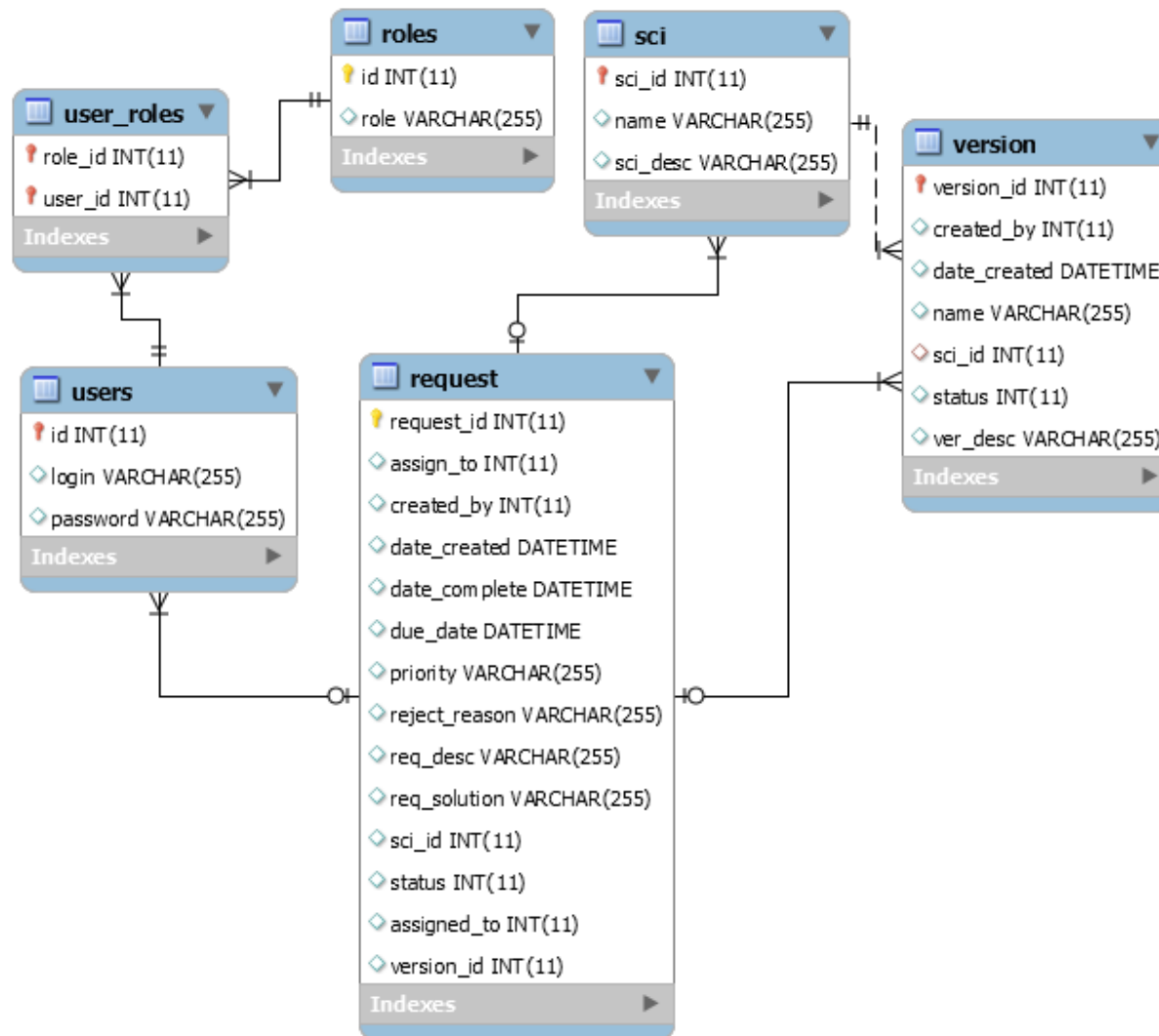


Component Diagram

Article IV. Class Diagram



Article V. EER Diagram



Article VI. Bibliography

al, M. W. e., 2013. *The Cucumber Book: Behaviour Driven Development for Testers and Developers (Pragmatic)*. P3.0 ed. s.l.:Pragmatic Programmers.

Ambler, S. W., 2014. *UML 2 State Machine Diagrams: An Agile Introduction*. [Online]

Available at: <http://www.agilemodeling.com/artifacts/stateMachineDiagram.htm#sthash.KlowvLiG.dpuf>

[Accessed 8 11 2015].

Bruegge, B. & Dutoit, A. H., 2000. *Object Orientated Software Engineering - Conquering Complex and Changing Systems*. First ed. New Jersey: Prentice Hall.

Crunchify, 2014. *How to use AJAX, jQuery in Spring Web MVC (.jsp) – Example*. [Online]

Available at: <http://crunchify.com/how-to-use-ajax-jquery-in-spring-web-mvc-jsp-example/>

[Accessed 26 12 2015].

Fakhroutdinov, K., 2015. *UML Sequence Diagrams*. [Online]

Available at: <http://www.uml-diagrams.org/sequence-diagrams.html>

[Accessed 10 11 2015].

Fowler, M., 2004. *UML Distilled*. Third ed. Boston: Pearson.

jQuery Foundation, 2015. *jQuery.ajax()*. [Online]

Available at: <http://api.jquery.com/jquery.ajax/>

[Accessed 15 12 2015].

Kumar, 2014. *state modeling In UML*. [Online]

Available at: http://www.slideshare.net/kumar_vic/10-state-modeling

[Accessed 11 11 2015].

ObjectDB, 2015. *JPA Reference (JavaDoc)*. [Online]

Available at: <http://www.objectdb.com/api/java/jpa>

[Accessed 20 12 2015].

Oracle, 2015. *Introduction to Ajax for Java Web Applications*. [Online]

Available at: <https://netbeans.org/kb/docs/web/ajax-quickstart.html>

[Accessed 09 11 2015].

Spring Source, 2015. *Spring MVC step by step*. [Online]

Available at: <http://docs.spring.io/docs/Spring-MVC-step-by-step/part2.html>

[Accessed 23 12 2015].

tutorialspoint, 2015. *JSTL Core <c:if> Tag*. [Online]

Available at: http://www.tutorialspoint.com/jsp/jstl_core_if_tag.htm

[Accessed 21 12 2015].

Walls, C., 2008. *Spring in Action*. Greenwich: Manning Publications Ltd.

Yong, M. K., 2011. *Spring Collections (List, Set, Map and Properties)*. [Online]

Available at: <http://www.mkyong.com/spring/spring-collections-list-set-map-and-properties-example/>

[Accessed 16 12 2015].