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| **Getting Ready For Banner XE**  Creating a stand-alone GRAILS application | Stirling Crow [stirlingcrow@unm.edu](mailto:stirlingcrow@unm.edu)  Jason Foutz [jwfoutz@unm.edu](mailto:jwfoutz@unm.edu) |

Resources:

* Source Code for Spriden Search : <https://github.com/unm-sis/SpridenSearch>
* Presentation PowerPoint – click on “Raw”:

<https://github.com/unm-sis/SpridenSearch/blob/master/docs/GGpresentation.pptx>

* InfoQ’s Grails Tutorial. <http://www.infoq.com/minibooks/grails-getting-started>

IDE (Integrated Development Environment)

* Groovy & Grails Tool Suite (GGTS) : <http://spring.io/tools/ggts>
* GGTS will install GRAILS for you when you install it.

SpridenSearch Technical Specs:

* GGTS, version 3.3.0: <http://docs.spring.io/sts/nan/v330/NewAndNoteworthy.html>
* Java, JDK 6 Update 29: <http://www.oracle.com/technetwork/java/javase/downloads/index.html>
* Groovy, Version 2.1: <http://groovy.codehaus.org/>
* GRAILS, Version 2.3.2: <http://grails.org/download>

Deployment

* Tomcat, Version 6 (for local install): <http://tomcat.apache.org/download-60.cgi>
* WebLogic, Version 10.3.6 (for production deployment)

GRAILS/Banner XE ListServ That UNM Set Up - To add yourself to the mailing list:

* Send an email to: [**listserv@unm.edu**](mailto:listserv@unm.edu)**, l**eave the subject field blank
* In the body of the message type: **subscribe grails\_banner\_xe-L YourFirstName YourLastName**
* Example: **subscribe grails\_banner\_xe-L Stirling Crow**

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| **MVC Framework Overview**  **Model/Domain** – Represents a table (the columns of a table). For the purposes or the SpridenSearch application, we created a domain that represents the SPRIDEN table columns.  **Controller** – Contains methods that perform business logic. The methods in the SpridenSearch application are:   |  |  | | --- | --- | | index | 🡪 redirects to searchById | | searchById | 🡪 sends you to the searchById.gsp view | | listStudents | 🡪 receives info from searchById view, queries database using that data, and then returns results to the listStudents.gsp view |     **View** - Responsible for creating the output(html) that the user will see. Controllers can receive information from a view and send information to a view. | **GRAILS Lingo**  **GORM** – Grail’s Object Relational Mapping. This is GRAIL’s implementation of Hibernate.  **Hibernate** - This is a java library that allows a web application to communicate with a database. Hibernate creates SQL statements based on information from your application, runs those against the database, and will return the result list to your application. Hibernate also keeps track of record changes.  **JDBC** – Java Database Connectivity. This is a set of libraries that allow your java application to communicate with a database. There are different JDBC drivers for different databases. Examples include Oracle, MySQL, SQL Server, etc…  **Spring** – The Java framework that GRAILS is based on. It provides MVC, plug-ins, and inversion of control. |