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XE Student Self-Service Configuration Methods

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University of Illinois

April 19, 2016
37510

Session rules of etiquette

- Please turn off your cell phone/pager
- If you must leave the session early, please do so as discreetly as possible
- Please avoid side conversation during the session

Thank you for your cooperation!

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Introduction

Using Ellucian delivered methods we will walk you through how to tailor the XE Student self-service applications for your institution.

- Web Tailor options
- XE Configuration Files
- Information Text Editor (GUAINFO)
- Overall Page and Field Configuration (SOAWSCR)

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Agenda

1. University of Illinois Overview
2. Security Configuration
3. XE Faculty Grade Entry Configuration
4. XE Student Advising Profile Configuration
5. XE Registration Configuration

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University of Illinois Overview

University of Illinois

- **Three campuses (Urbana-Champaign, Chicago, Springfield) www.uillinois.edu**
  - Urbana-Champaign
    - 44K Students, 11K Employees
  - Chicago
    - 28K Students, 10K Employees
  - Springfield
    - 5K Students, 2K Employees

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University of Illinois Banner Environment

- Live with Banner since 2001
- Production Banner database 1.6 TB
- 5.8 million SPRIDEN records
- Licensed for all modules except Alumni
- Multi-Campus VPD/MEP for Financial Aid, Academic History, Web Tailor, Course Catalog and Schedule
- FGAC used throughout Student and HR to segregate data by campus, college, department, etc..

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AITS (Administrative Technology Services)

- Delivers **enterprise-wide IT solutions and services** in support of the mission critical functions of the University of Illinois. These functions include student services and financial aid, human resources and payroll, facilities, advancement, research administration, and finance.
- Has a presence at **all three campuses** and is the University-wide resource for computing, applications support, applications development, and data management in support of University business processes.

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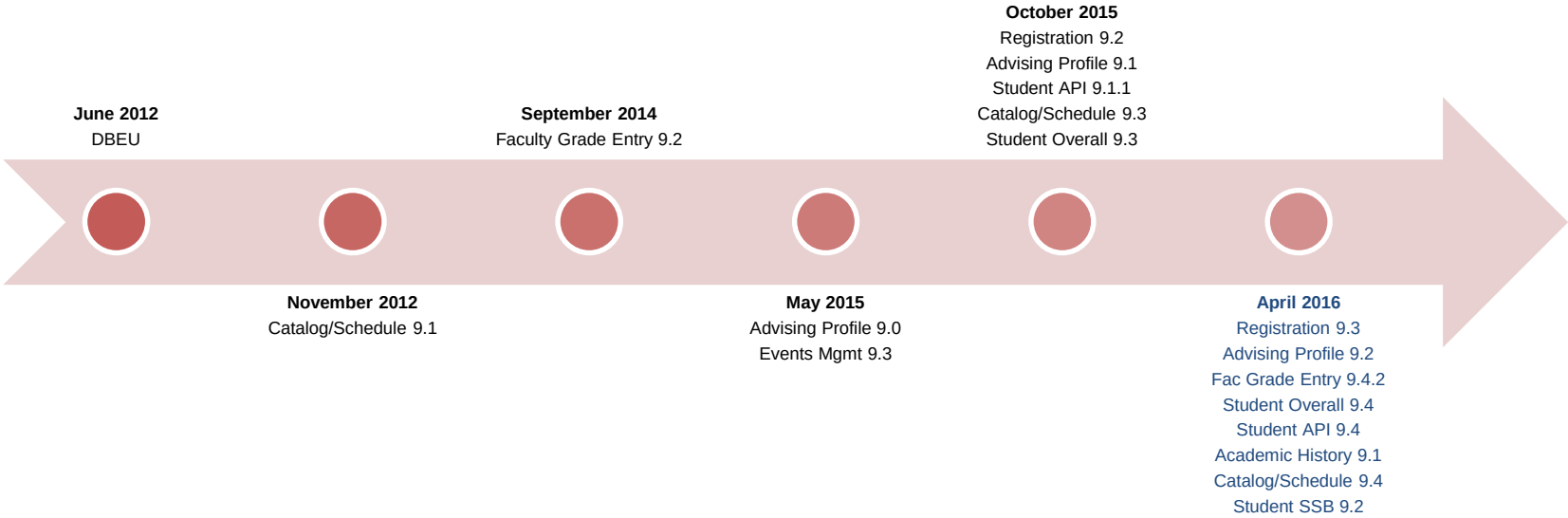
Banner XE timeline



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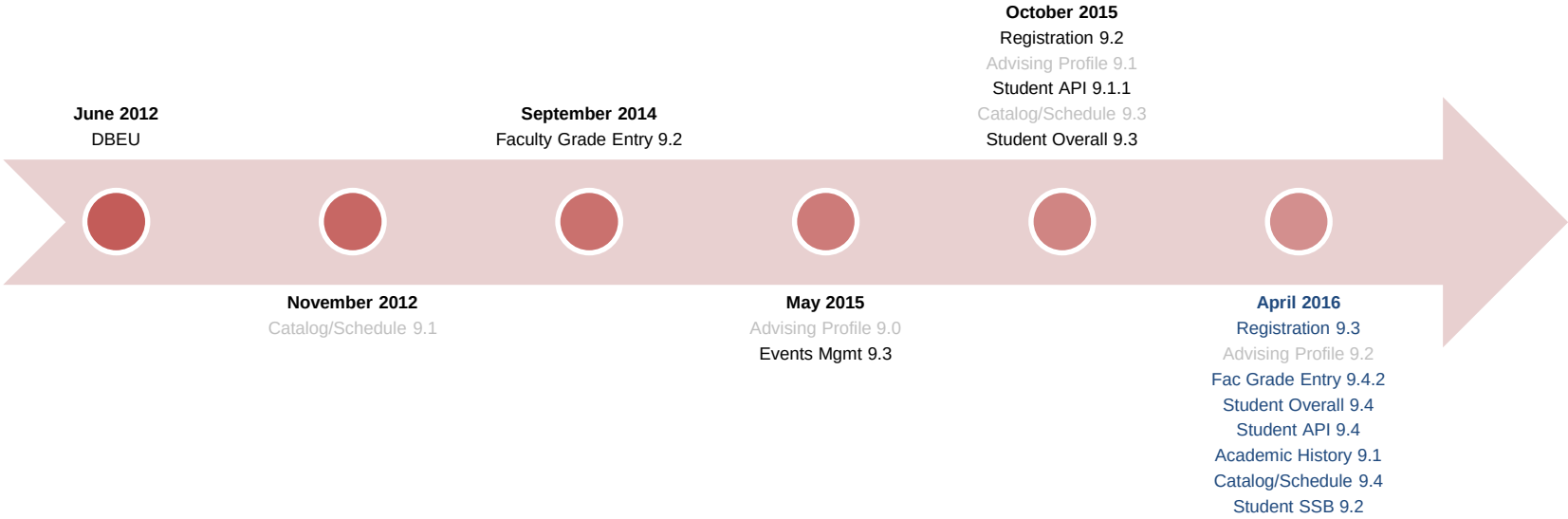
Banner XE timeline



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Security XE Application Configuration

Security Configuration

- **We used security configuration to control how information displays to our students, faculty and advisors**
  - Fine-Grained Access Control (FGAC)
  - Multi-Entity Processing (MEP)

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Fine Grain Access Control Security

Fine-Grained Access Control (FGAC) is an Oracle feature that can be used to provide row-level security for Oracle tables. Banner® offers two optional data security features that take advantage of the capabilities of Oracle FGAC. These features are:

- Value-Based Security (VBS)
- Security for Personally Identifiable Information (PII)

More detailed information in Banner General Data Security Handbook

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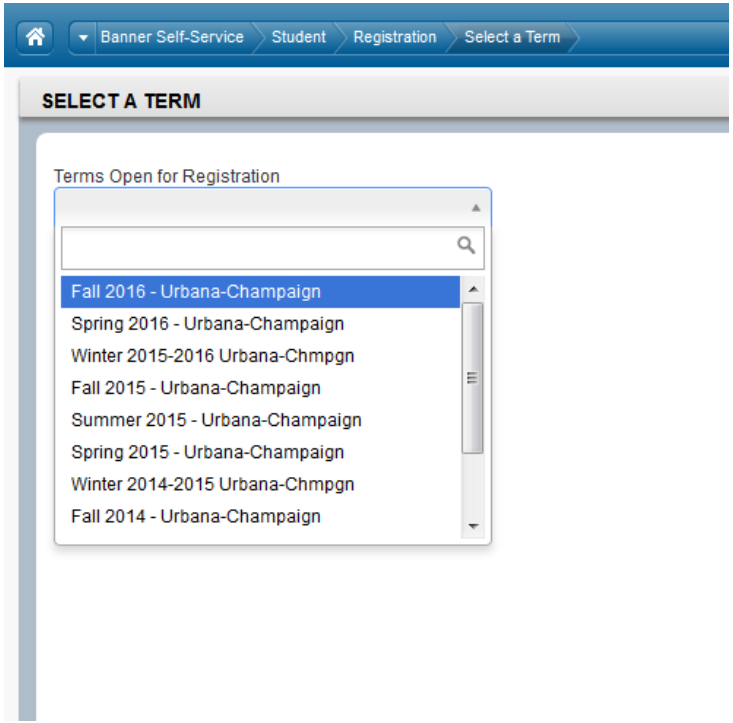
XE and Fine Grain Access Control

We used FGAC to limit term drop down lists in our XE Self-Service applications



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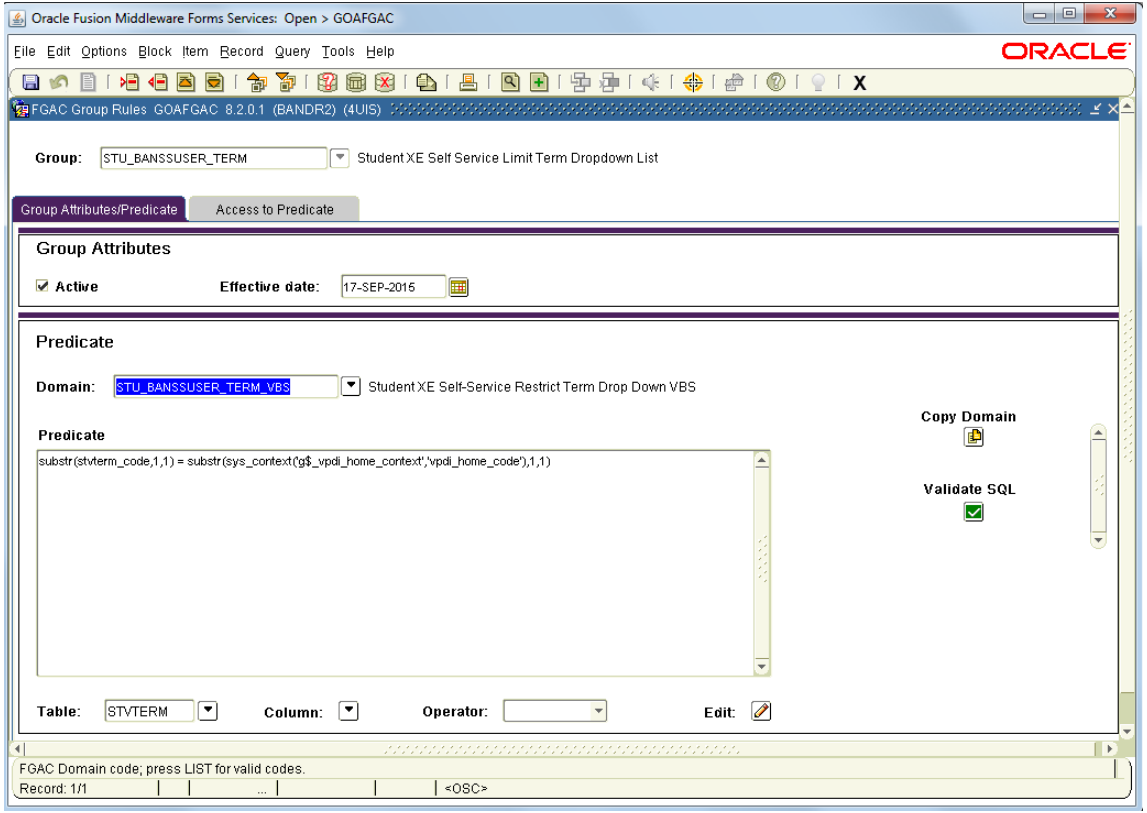
XE and Fine Grain Access Control



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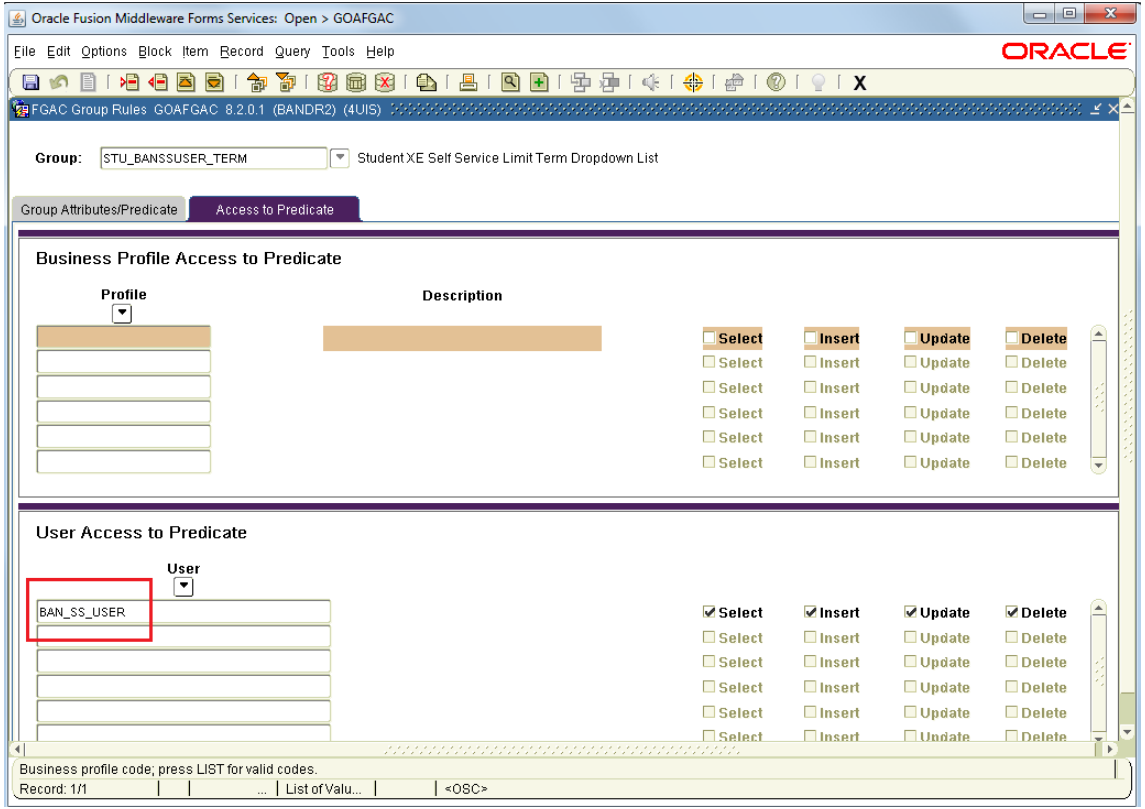
XE and Fine Grain Access Control



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Multi-Entity Processing

- Multi-Entity Processing (MEP) allows multiple campuses or locations to share one single database to create a fully integrated multi-entity solution.
- In Banner, to implement MEP, the database is partitioned for the various campuses. On every table in BANNER is a security column (<table_name>_VPDI_CODE) in which the various campuses' IDs can be entered, based on your Institution's security demands.

More detailed information in Multi-Entity Processing Implementation Guide

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XE and Multi-Entity Processing

- All of our XE applications are MEP enabled
- We have separate URLs for each MEP code Self-Service application
- We choose a MEP code when logging into XE Admin Pages
- We have MEP enabled the Web Tailor tables, GURINFO, SORWSDP and SORWSCR

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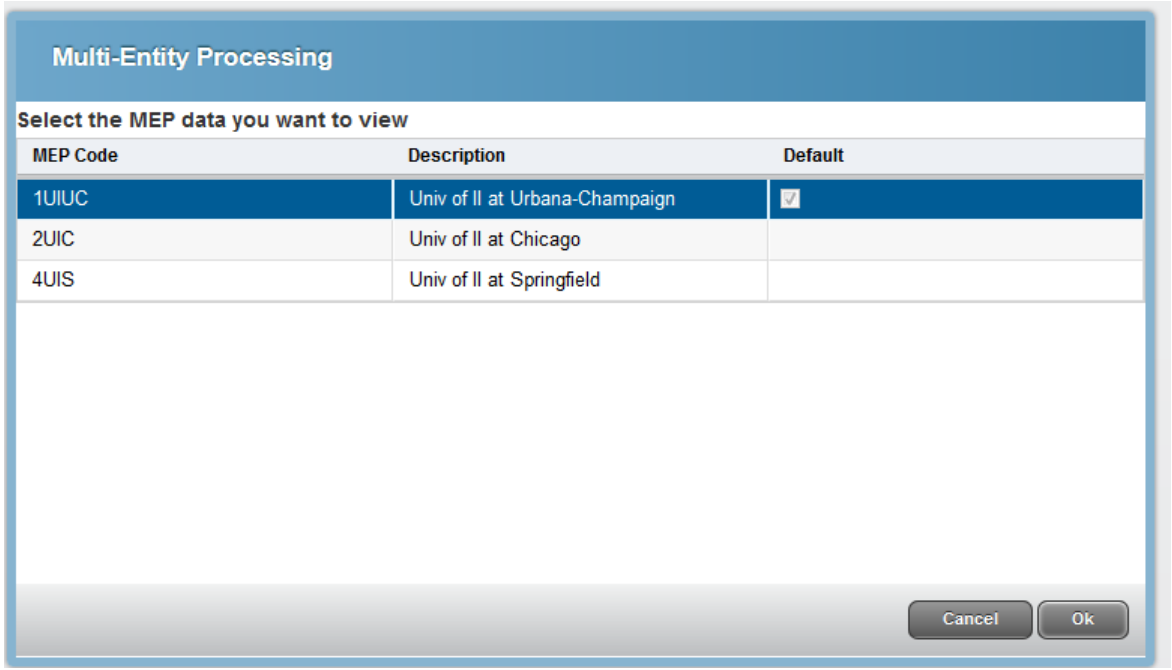
XE and Multi-Entity Processing



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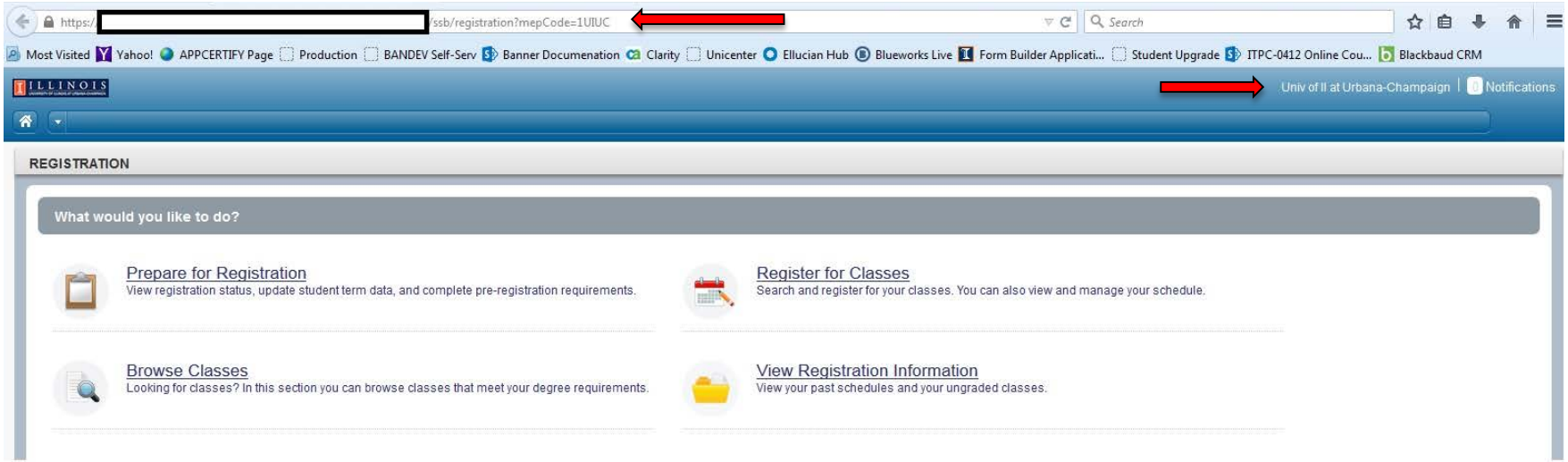
XE and Multi-Entity Processing



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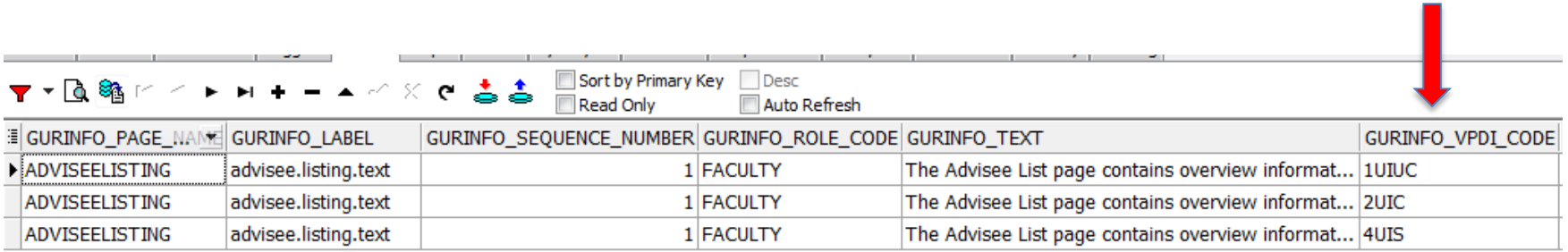
XE and Multi-Entity Processing



GURINFO_PAGE_NAME	GURINFO_LABEL	GURINFO_SEQUENCE_NUMBER	GURINFO_ROLE_CODE	GURINFO_TEXT	GURINFO_VPDI_CODE
ADVISEELISTING	advisee.listing.text	1	FACULTY	The Advisee List page contains overview informat...	1UIUC
ADVISEELISTING	advisee.listing.text	1	FACULTY	The Advisee List page contains overview informat...	2UIC
ADVISEELISTING	advisee.listing.text	1	FACULTY	The Advisee List page contains overview informat...	4UIS

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Security Configurations Summary

- **Using existing Banner Security methods, you can customize the display of XE applications**
  - FGAC
  - MEP

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XE Faculty Grade Entry Configuration

XE Faculty Grade Entry Configuration

- **Implemented 9.2 version in September 2014**
- **Implementing 9.4.2 version in April 2016**
- **Configuration Items**
  - Web Tailor
  - Configuration Files
  - CSS Files
  - SOAFACS

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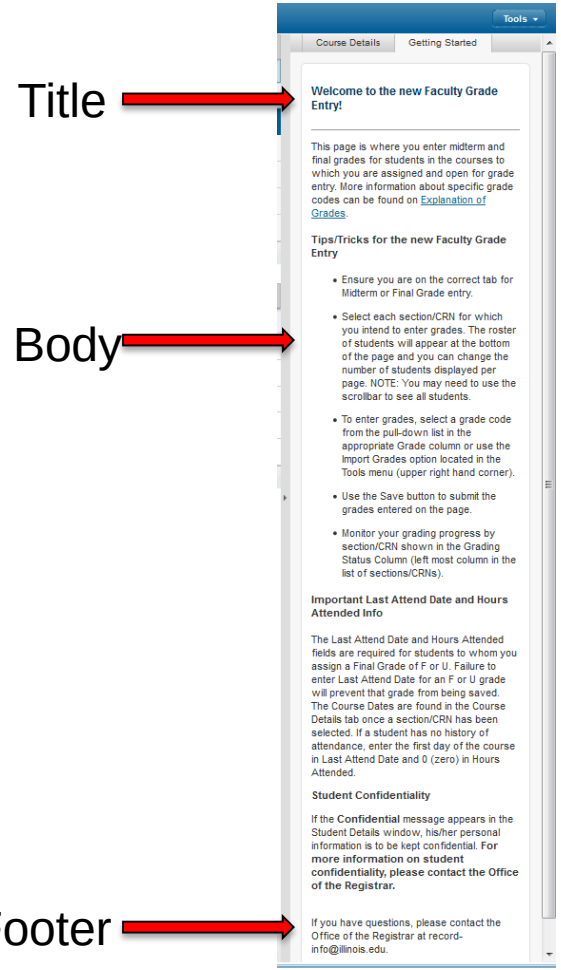
XE FGE: Web Tailor

The Info Text is contained in three labels for the Web Tailor procedure *FGE9*:

- GettingStartedTitle
- GettingStartedBody
- GettingStartedFooter

The Info text utilizes Markdown Language.



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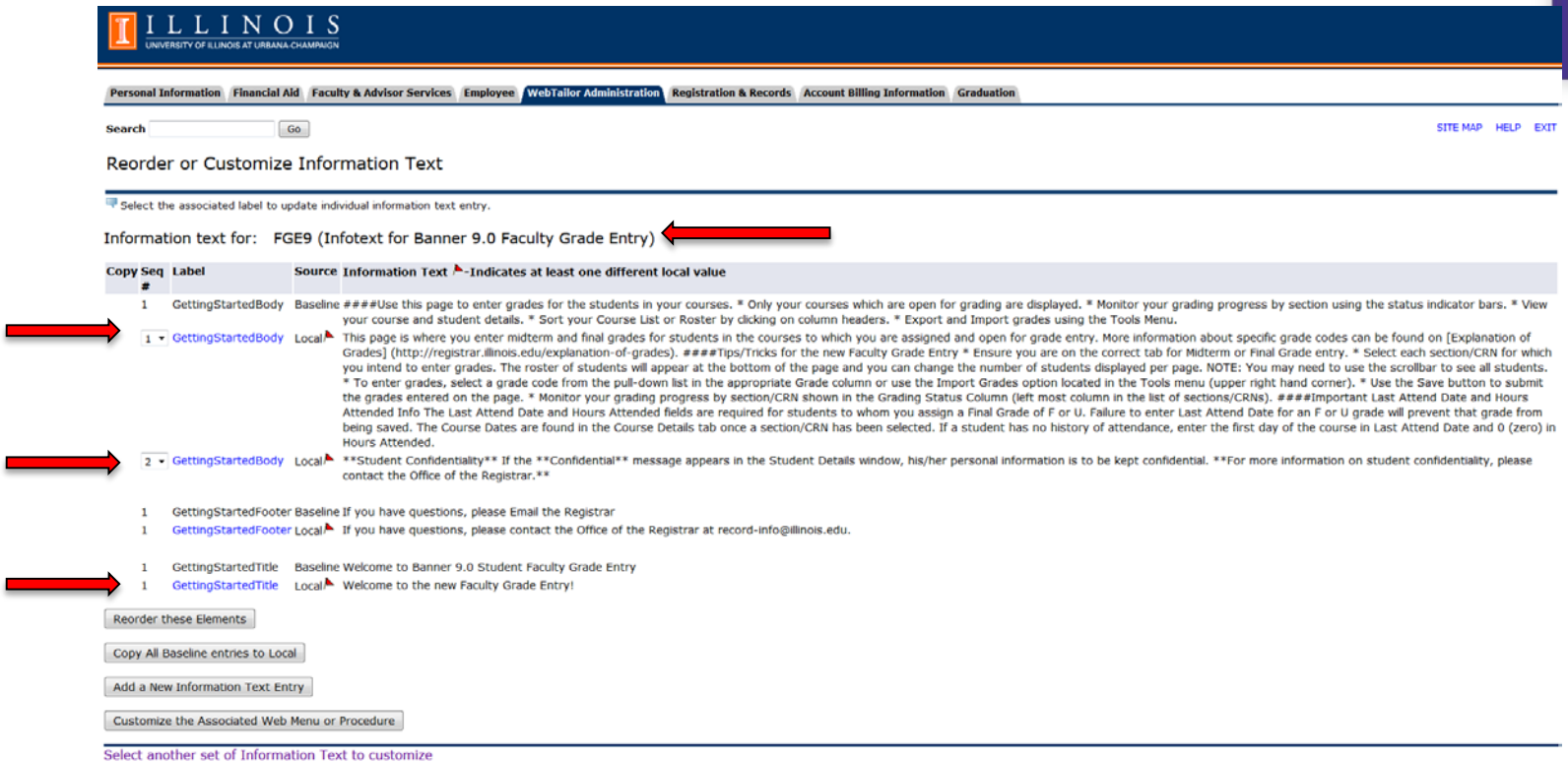
XE FGE: Web Tailor



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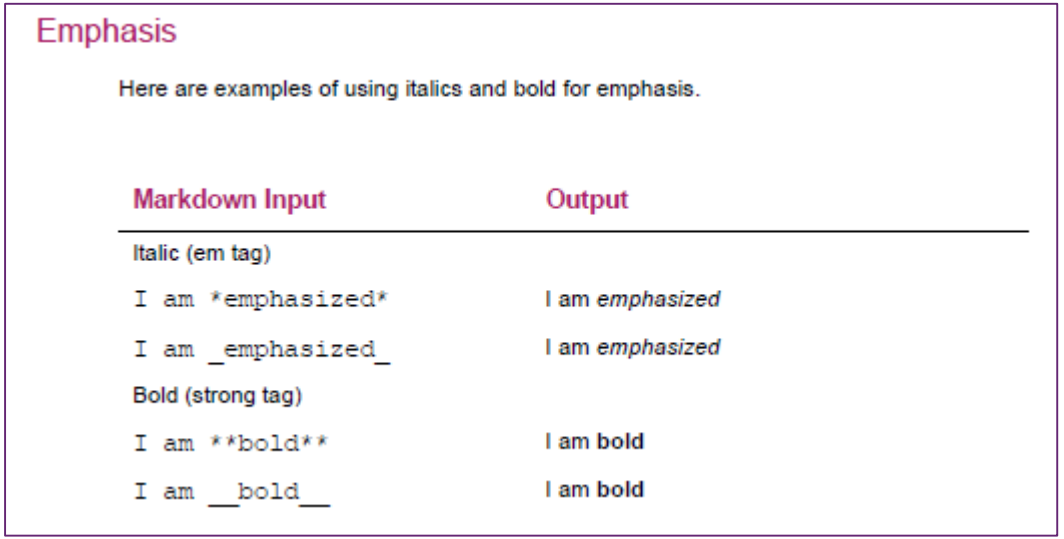
Markdown Language

- **Markdown is a text-to-HTML conversion tool for web writers. Markdown allows you to write using an easy-to-read, easy-to-write plain text format, then convert it to structurally valid HTML.**
  Source: https://daringfireball.net/



Emphasis

Here are examples of using italics and bold for emphasis.

Markdown Input	Output
Italic (em tag)	
`I am *emphasized*`	I am *emphasized*
`I am _emphasized_`	I am *emphasized*
Bold (strong tag)	
`I am **bold**`	I am **bold**
`I am __bold__`	I am **bold**

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Markdown Language

- **All XE Self-Service applications use Markdown language**
- **Ellucian release guides and handbooks provide Markdown commands and syntax**
- **A Markdown limitation is the inability to open a hyperlink in a new window or tab**

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XE FGE: Configuration Files

- **There are 2 Configuration Files**
  - StudentFacultyGradeEntry_configuration
  - messages.properties
- **The Configuration Files control field displays, certain section displays and messages**

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XE FGE: Configuration Files

messages.properties - Notepad

File Edit Format View Help

```
gradeEntry.breadcrumb.faculty=Faculty And Advisors
gradeEntry.breadcrumb.gradeEntry=Grade Entry
gradeEntry.breadcrumb.studentAcademicReview=Student Academic Review

# Course Detail #

courseDetail.courseSection=Select a Course
courseDetail.midtermGrade=Midterm Grades
courseDetail.finalGrade=Final Grades
courseDetail.gradebook=Gradebook

courseDetail.header.status=Grading Status
courseDetail.header.rolled=Rolled
courseDetail.header.subject=Subject
courseDetail.header.course=Course
courseDetail.header.section=Section
courseDetail.header.title=Title
courseDetail.header.term=Term
courseDetail.header.crn=CRN
courseDetail.grid.noSectionsFound=No sections are available for grading at this time.

# Course Roster View #

courseRosterView.gradesSection.Roster=Roster
courseRosterView.gradesSection.IncompleteGrades=Incomplete Grades
courseRosterView.grid.header.FullName=Full Name
courseRosterView.grid.header.Id=ID
courseRosterView.grid.header.Grade=Grade
courseRosterView.grid.header.MidtermGrade=Midterm Grade
courseRosterView.grid.header.FinalGrade=Final Grade
courseRosterView.grid.header.IncompleteFinalGrade=Incomplete Final Grade
courseRosterView.grid.header.ExtensionDate=Extension Date
courseRosterView.grid.header.ExtensionDateConstraints=Extension Date Constraints
courseRosterView.grid.header.GradesSection=Enter Grades
courseRosterView.grid.header.GradesSection.readOnly=Enter Grades (Read Only)
courseRosterView.grid.header.Rolled=Rolled
courseRosterView.grid.header.LastAttendDate=Last Attend Date
courseRosterView.grid.header.AttendedHours=Hours Attended
```

StudentFacultyGradeEntry_configuration.example - Notepad

File Edit Format View Help

```
        /*************************************************************
                                Image Path
         *************************************************************/

banner {
    picturesPath = System.getProperty('base.dir') + '/test/images'
}

/* Access the student profile page through clicking on student name hyperlink or
contact card view profile button click */

//To ensure that the Banner Student Faculty Grade Entry module can communicate with
the Banner Student Student Profile module,
// modify the bannerXE.url.mapper.studentProfile parameter to point to the full path
to the Banner Student Student Profile module
//bannerXE.url.mapper.studentProfile =
'http://<server>:<port>/<StudentSSB_root>/ssb/studentProfile'

all.studentcard.cardEnabled.view=['gradeEntry','studentAcademicReview']
all.studentcard.cardEnabled.roles= ['faculty','facultyoverride']
all.studentcard.name.view= ['gradeEntry','studentAcademicReview']
all.studentcard.name.roles= ['faculty','facultyoverride']
all.studentcard.photo.view= ['gradeEntry','studentAcademicReview']
all.studentcard.photo.roles= ['faculty','facultyoverride']
all.studentcard.major.view= ['gradeEntry','studentAcademicReview']
all.studentcard.major.roles= ['faculty','facultyoverride']
all.studentcard.program.view= ['gradeEntry','studentAcademicReview']
all.studentcard.program.roles= ['faculty','facultyoverride']
#all.studentcard.address.view= ['gradeEntry','studentAcademicReview']
all.studentcard.address.roles= ['faculty','facultyoverride']
#all.studentcard.telephone.view= ['gradeEntry','studentAcademicReview']
all.studentcard.telephone.roles= ['faculty','facultyoverride']
all.studentcard.email.view= ['gradeEntry','studentAcademicReview']
all.studentcard.email.roles= ['faculty','facultyoverride']
```


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XE FGE: CSS Files

- We did campus branding
- We hid items in FGE 9.2 version, but can now use extensibility

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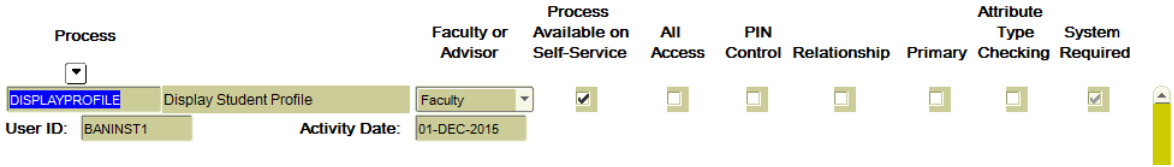
XE FGE: SOAFACS

- **DISPLAYPROFILE controls whether a faculty member can access a student's profile page**



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FGE Configuration Summary

- **Configuration Items**
  - Web Tailor
  - Configuration Files
  - CSS Files
  - SOAFACS

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XE Student Advising Profile Configuration

Configuration/Security Methods

- **Implemented 9.0 version in May 2015**
- **Implemented 9.1 version in October 2015**
- **Implementing 9.2 version in April 2016**
- **Configuration Items**
  - GUAINFO
  - Configuration Files
  - CSS Files

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XE SAP: GUAINFO

- **Configurable items for XE SAP are found where Page Name is ADVISEELISTING, ADVISEESEARCH, or STUDENTPROFILE**
- **The text utilizes Markdown Language**
- **There are different types message. Each text message is categorized under one of the following message types:**
  - N - Notifications
  - T - Tool tip
  - P - Panel

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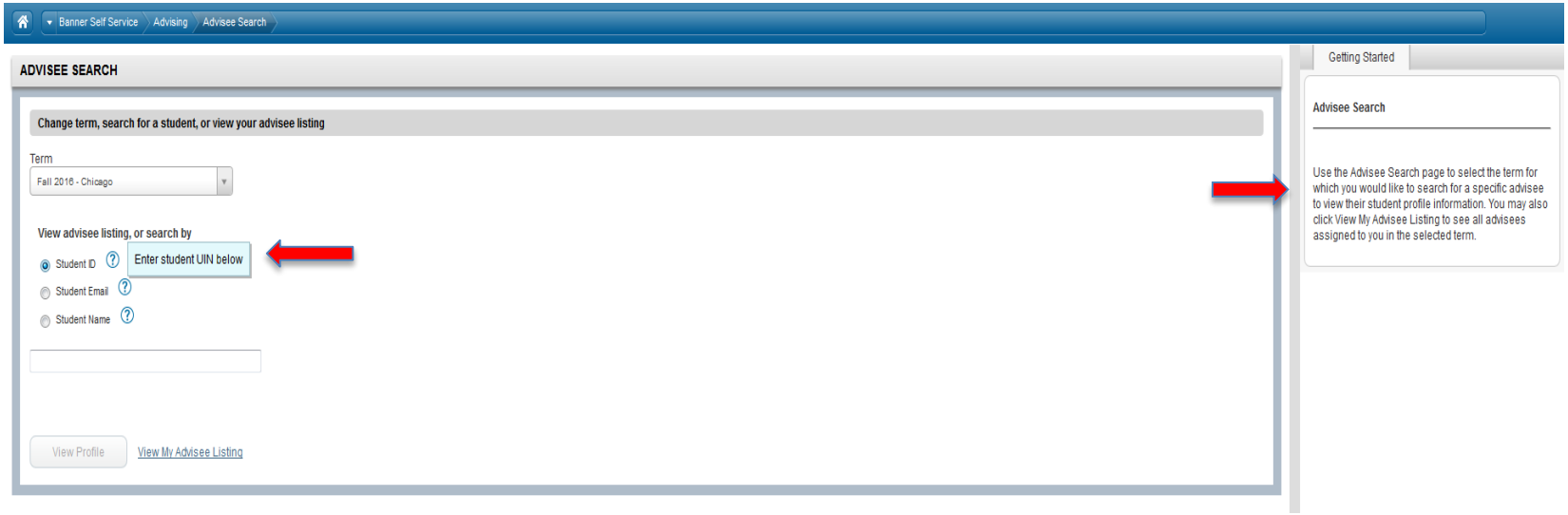
XE SAP: GUAINFO



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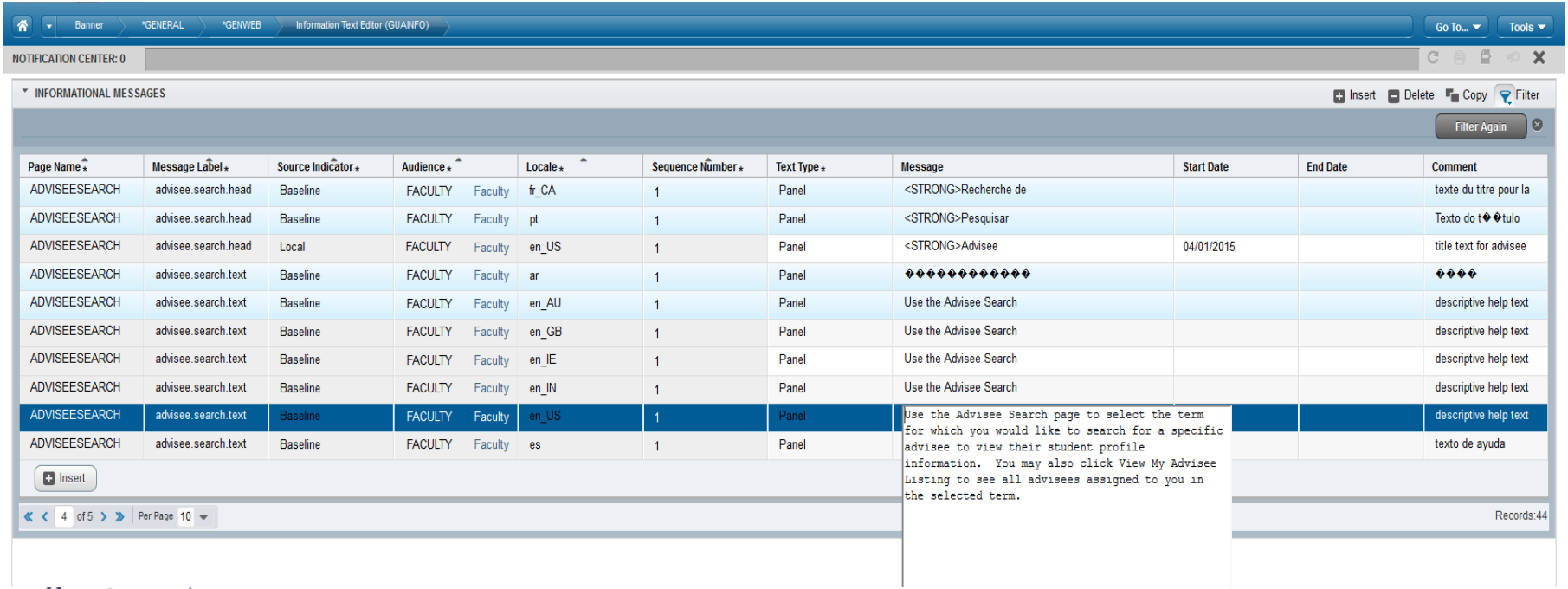
XE SAP: GUAINFO



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XE SAP: Configuration Files

- **Configuration Files**
  - bannerStudentAdvisorUI_configuration.properties
  - 2 messages.properties files
  - banner_configuration.groovy
- **Control items by role and by MEP code**

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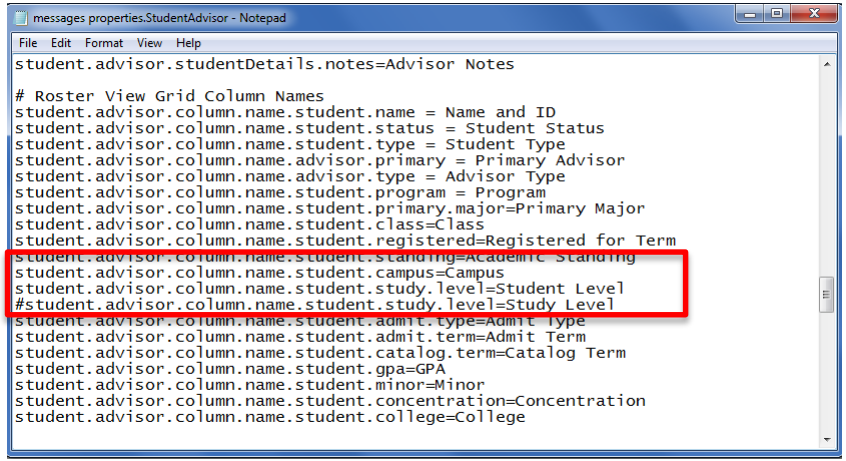
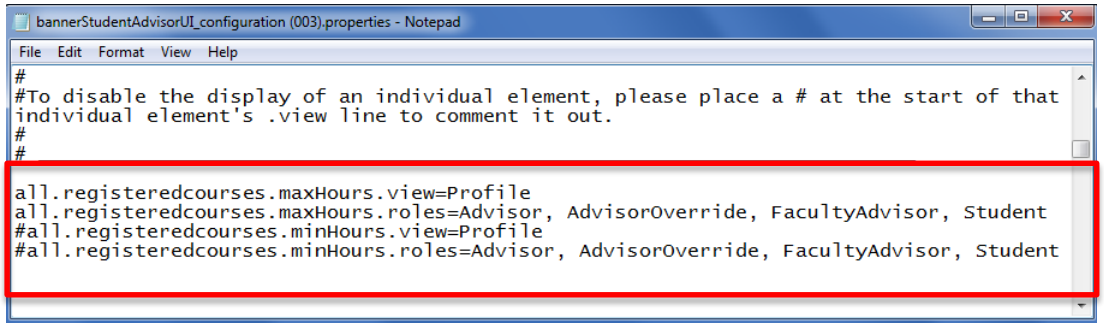
XE SAP: Configuration Files





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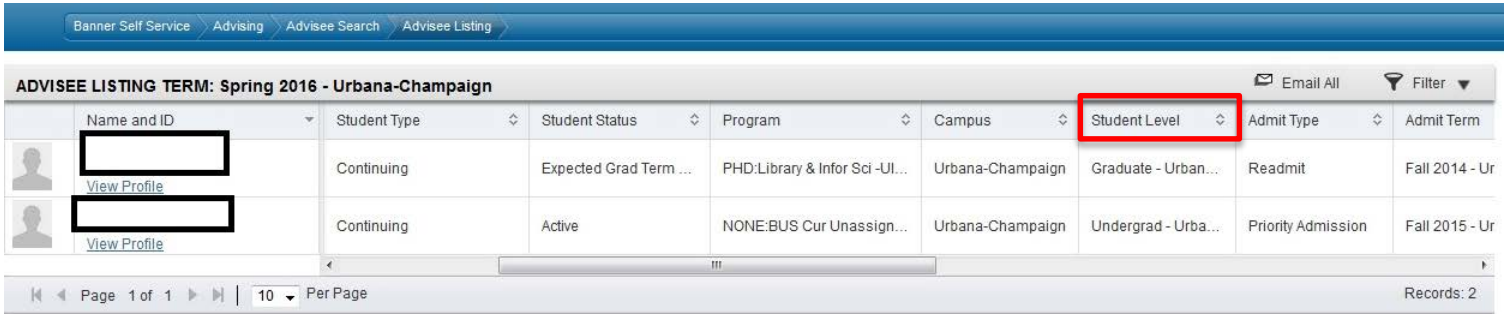
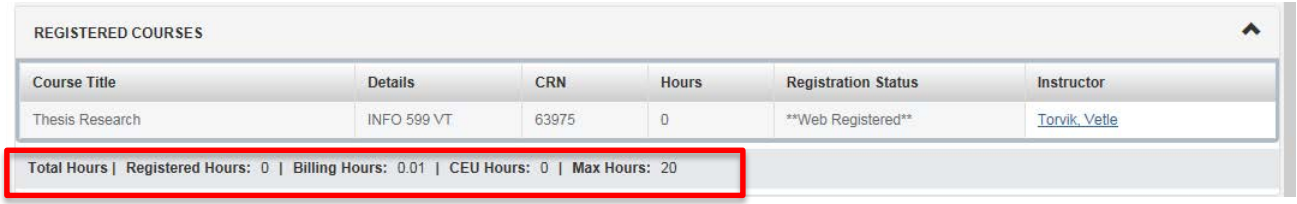
XE SAP: Configuration Files





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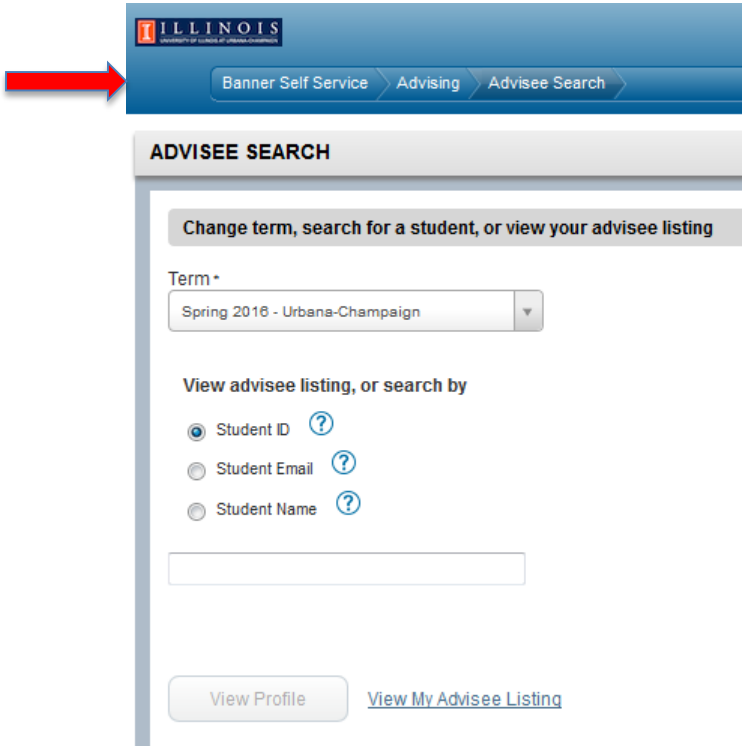
XE SAP: CSS Files

- We did campus branding
- We hid Menu and Home button
- We hid items/links on the left-hand side



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XE SAP Configuration Summary

- **Configuration Items**
  - GUAINFO
  - Configuration Files
  - CSS Files

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XE Registration Configuration

Configuration Methods

- **Implemented 9.2 version in October 2015**
- **Implementing 9.3.0.2 version in April 2016**
- **Configuration Items**
  - GUAINFO
  - SOAWSCR
  - Configuration Files
  - CSS Files

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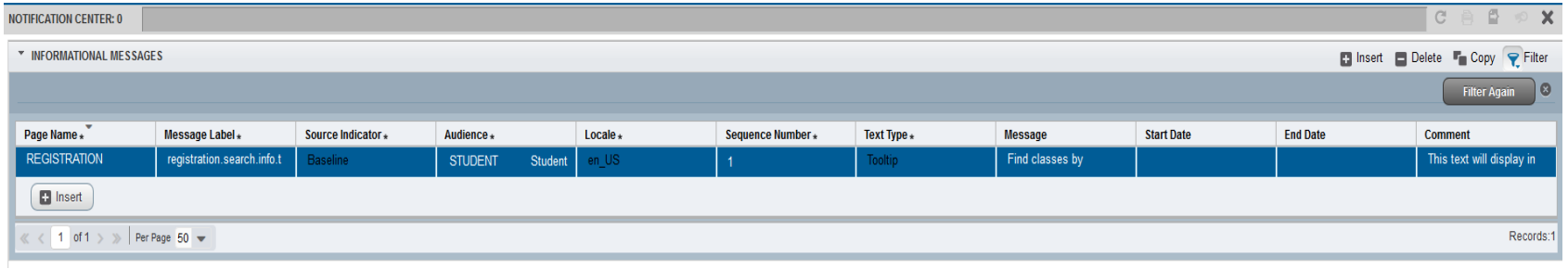
XE REG: GUAINFO

- Our GUAINFO is VPD/MEP
- Only 1 item to configure for Registration XE



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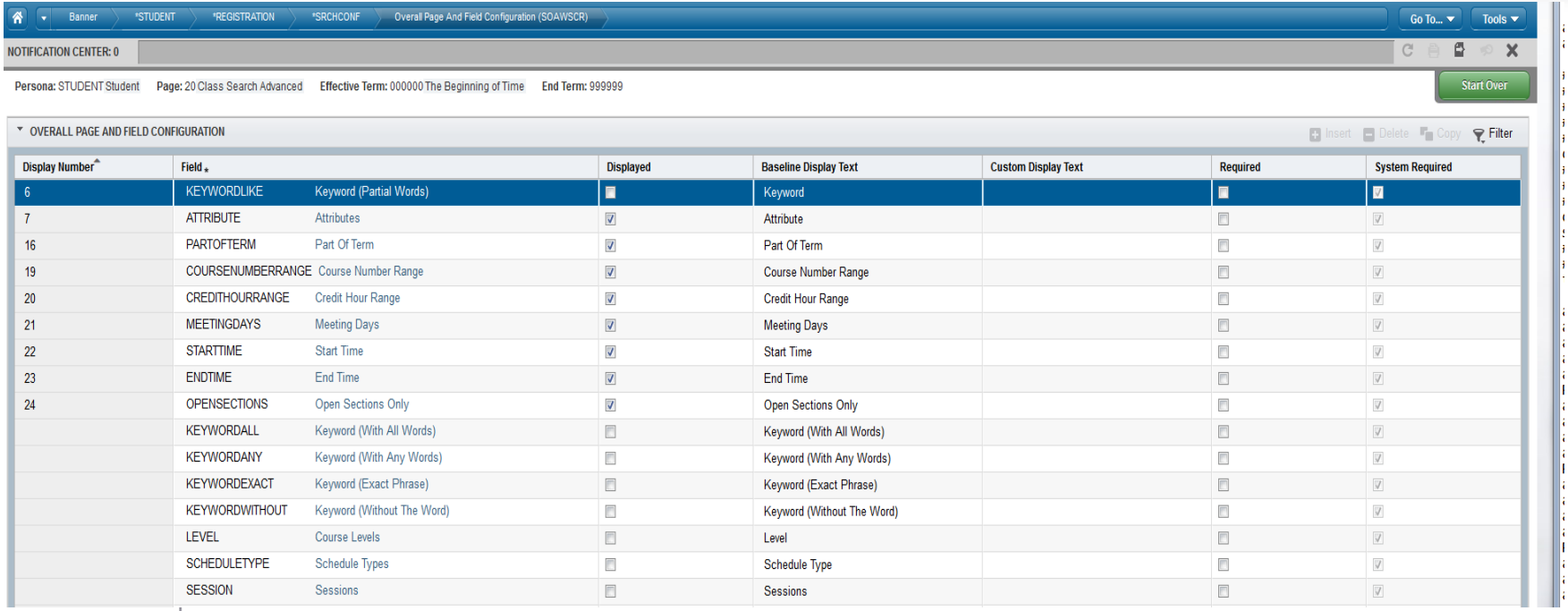
XE REG: SOAWSCR



Display Number	Field		Displayed	Baseline Display Text	Custom Display Text	Required	System Required
6	KEYWORDLIKE	Keyword (Partial Words)	☐	Keyword		☐	☑
7	ATTRIBUTE	Attributes	☑	Attribute		☐	☑
16	PARTOFTERM	Part Of Term	☑	Part Of Term		☐	☑
19	COURSENUMBERRANGE	Course Number Range	☑	Course Number Range		☐	☑
20	CREDITHOURRANGE	Credit Hour Range	☑	Credit Hour Range		☐	☑
21	MEETINGDAYS	Meeting Days	☑	Meeting Days		☐	☑
22	STARTTIME	Start Time	☑	Start Time		☐	☑
23	ENDTIME	End Time	☑	End Time		☐	☑
24	OPENSECTIONS	Open Sections Only	☑	Open Sections Only		☐	☑
	KEYWORDALL	Keyword (With All Words)	☐	Keyword (With All Words)		☐	☑
	KEYWORDANY	Keyword (With Any Words)	☐	Keyword (With Any Words)		☐	☑
	KEYWORDEXACT	Keyword (Exact Phrase)	☐	Keyword (Exact Phrase)		☐	☑
	KEYWORDWITHOUT	Keyword (Without The Word)	☐	Keyword (Without The Word)		☐	☑
	LEVEL	Course Levels	☐	Level		☐	☑
	SCHEDULETYPE	Schedule Types	☐	Schedule Type		☐	☑
	SESSION	Sessions	☐	Sessions		☐	☑

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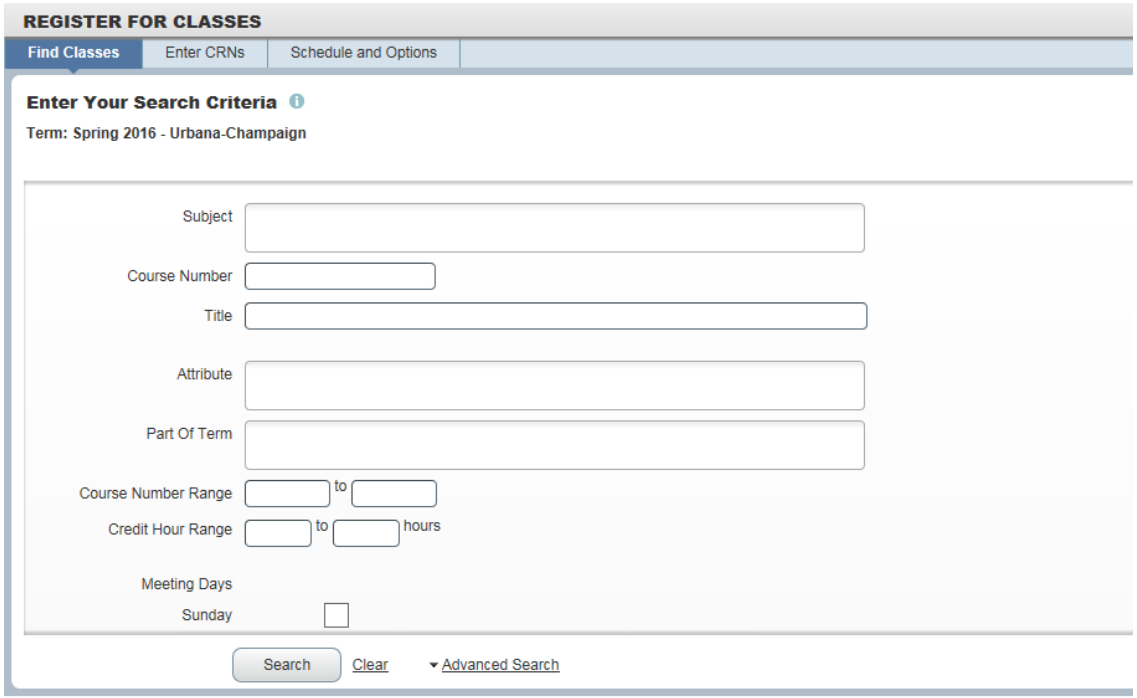
XE REG: SOAWSCR



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XE REG: SOAWSCR

- Configure items by persona, page and term
- Our SOAWSCR is VPD/MEP
- Copy functionality is handy
- We initially loaded this table into production via script
- The configuration allowed is similar to the configuration files but SOAWSCR provides a GUI interface
- Does not contain every single field displayed on a page

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XE REG: Configuration Files

- We updated the text underneath the links on the Landing Page
- Can update other items that are not configurable in SOAWSCR
- Cannot hide fields

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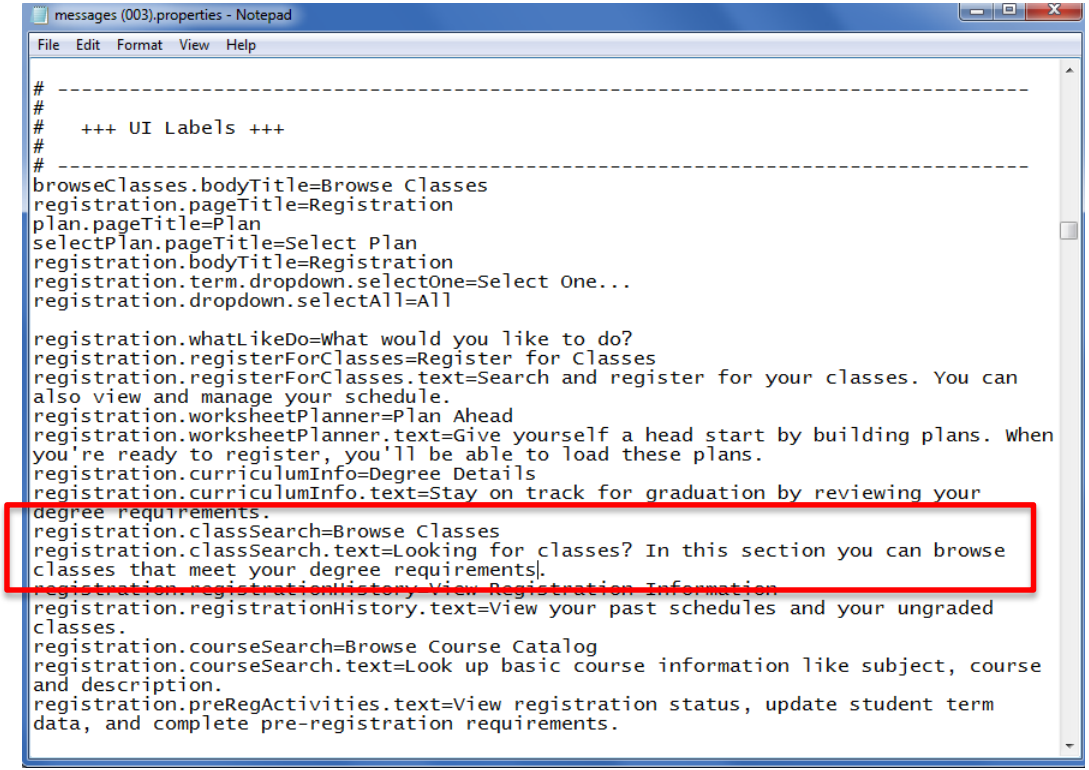
XE REG: Configuration Files



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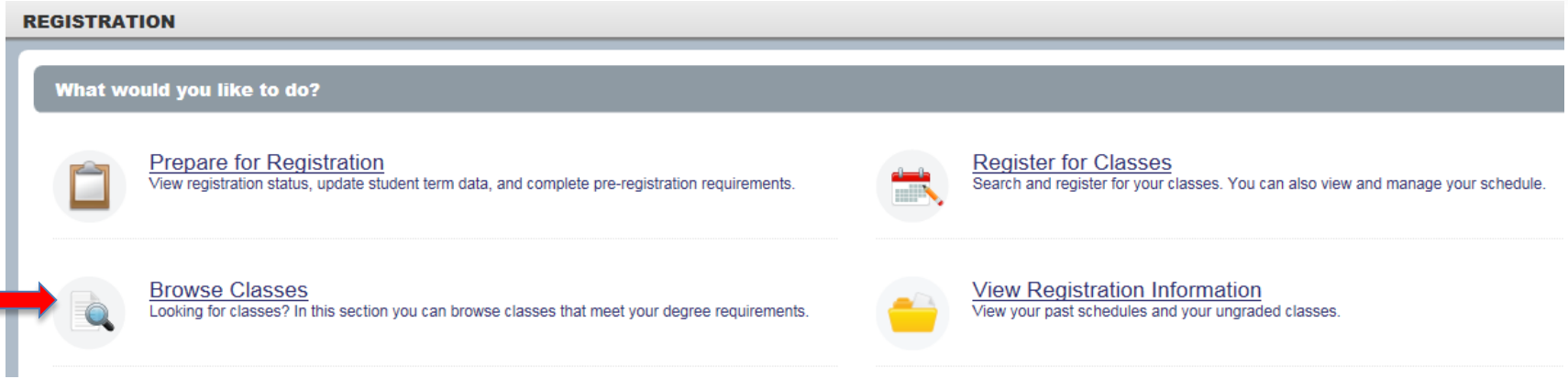
XE REG: Configuration Files



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XE REG: CSS Files

- We did campus branding
- We hid Menu and Home button

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XE REG: Configuration Summary

- **Configuration Items**
  - GUAINFO
  - SOAWSCR
  - Configuration Files
  - CSS Files

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Presentation Summary

	Field Labels	Text	Overall Display Items	Other
Faculty Grade Entry	Config Files	Web Tailor	CSS File	SOAFACS
Student Advising Profile	Config Files	GUAINFO	CSS File	
Registration	SOAWSCR, Config Files	GUAINFO	CSS File	

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Questions & Answers

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The Mile High City DENVER APRIL 17–20, 2016

Thank you!

Amanda Bland, amwood@ullinois.edu

Beth McCarter, emason@uillinois.edu

Please complete the online session evaluation form.

Session ID 37510

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DENVER
APRIL 17–20, 2016

We need your help

Feedback Survey

Access session surveys by using the survey widget on the mobile app or by logging into your session schedule builder at

http://tinyurl.com/elive2016surveys

Amanda Bland, Beth McCarter

Session ID 37510