

Website Specification: NCUWM Registration Site

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DOCUMENT HISTORY	
Version	Changes
0.1	Initial draft
0.2	Proposed timeline; merged clarifications from Donsig; added schema
0.3	Update schema to include association table for REUs; add password reminder to wireframe; add collection of co-authors
0.4	Updated dates and schema with minor corrections arising from code development. Add diagram and info on site architecture.

Abstract:

Develop a new web interface for participant registration for the Nebraska Conference for Undergraduate Women in Mathematics (NCUWM).

Requirements:

- Collect initial registration information from participants at the NCUWM
- Enable updates by participants as new information becomes available (e.g., travel plans, abstract, etc.)
- Present appropriately organized information to UNL staff
- Comply with UNL stylesheets and templates
- Migrate easily from one year to another
- Employ standard technologies and design patterns for ease of downstream maintainance

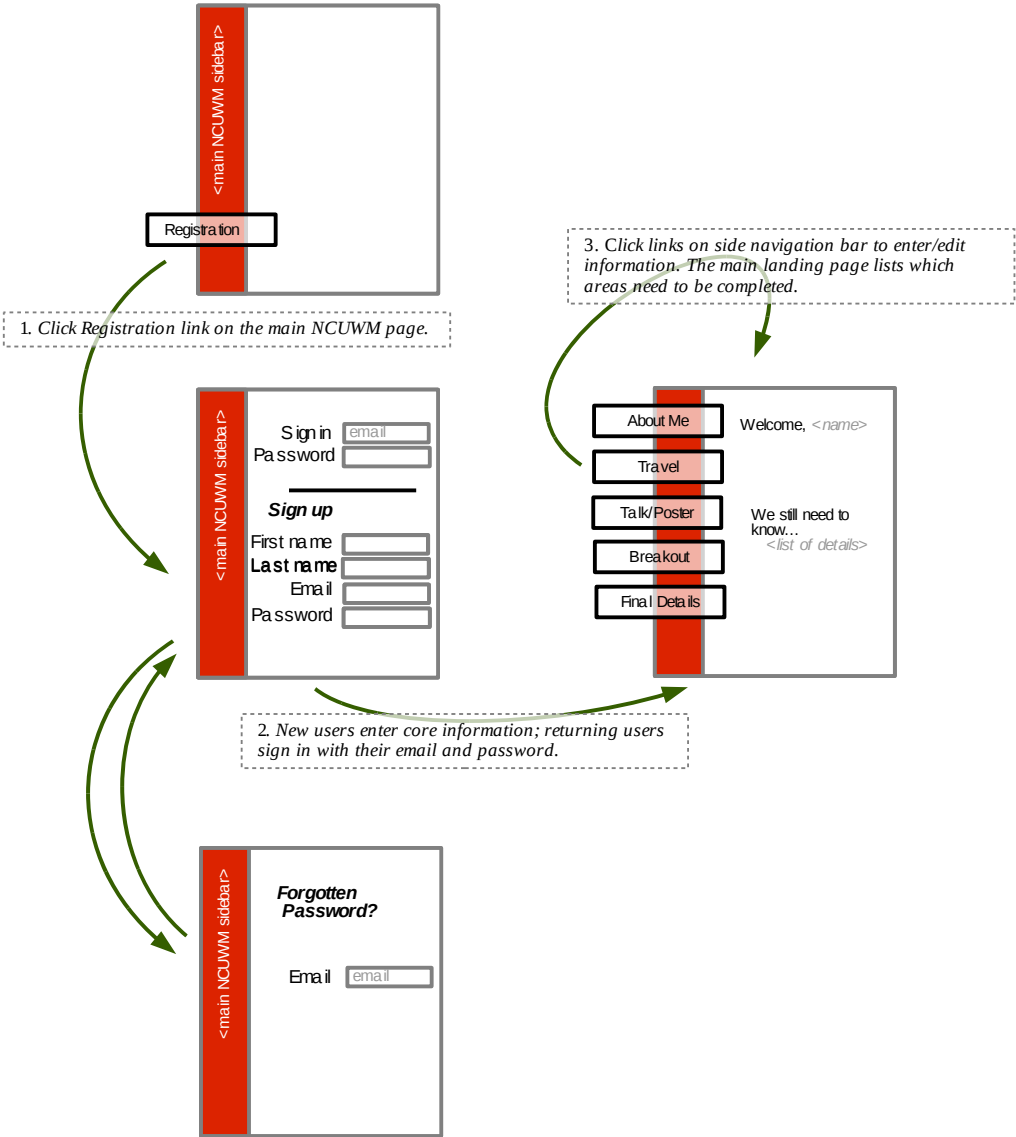
Timeline:

Date	Stage	Status
	Initial planning meetings	Completed
Sep 31, 2009	First draft of site spec.	Completed 7/31/09
Aug 7, 2009	Review and approval of site spec.	Completed 8/7/09
Aug 8 – 31, 2009	Development of site	Completed 8/21/09
Aug 31, 2009	Alpha release	
Sep 1 – 14, 2009	First QA cycle	
Sep 14, 2009	Beta release	
Sep 15 – 21, 2009	Second QA cycle	
Sep 21, 2009	Release candidate	
Sep 25, 2009	Live deployment; registration begins	

Roles & responsibilities:

People	Role
Judy Walker	<i>Co-chair NCUWM Committee</i> Review and approve site spec. Assist with site QA Approve final version
Allan Donsig	<i>Co-chair NCUWM Committee</i> Review and approve site spec. Assist with site QA Approve final version
John Orr	<i>Member, NCUWM Committee; Chair, Website sub-committee</i> Develop site spec. Implement coding for approved spec. Manage QA process Resolve bug issues
Christine Kelley	<i>Member, NCUWM Committee; Member, Website sub-committee</i> Review and advise on site spec. Assist with QA
Shannon Parry	<i>Member, NCUWM Committee; Member, Website sub-committee</i> Review and advise on site spec. Advise on administrative tools for site. Assist with QA
Ela Celikbas	<i>Member, NCUWM Committee; Member, Website sub-committee</i> Review and advise on site spec. Assist with QA
Rex Dieter	<i>Math Dept Sysadmin</i> Oversee web and database servers Implement backup strategy for database

Wireframes:



Data collected:

The site will collect the following data from participants.

Personal Details	
Name	First and last names
Email	Email address
Address	Two line address plus city, state, zip
Phone	
Undergrad school	The participant's undergraduate institution
Highest degree	Highest degree offered by the participant's undergraduate school
Expected grad year	Year expected to receive degree
Classification	Junior/senior/UNL Faculty
Advisor	Name of advisor or chair of department
Advisor email	Email of advisor or chair of department
Support	Indicate whether travel support is requested (yes/no)
REUs attended	List of REU's attended
Comments	Miscellaneous comments

Travel Details	
Mode of travel	Fly/drive/none
Arrival day/time	
Arrival flight	Airline and flight number
Arrival airport	Lincoln/Omaha
Departure day/time	
Departure flight	Airline and flight number
Departure airport	Lincoln/Omaha
Travel comments	Any other travel information we should know

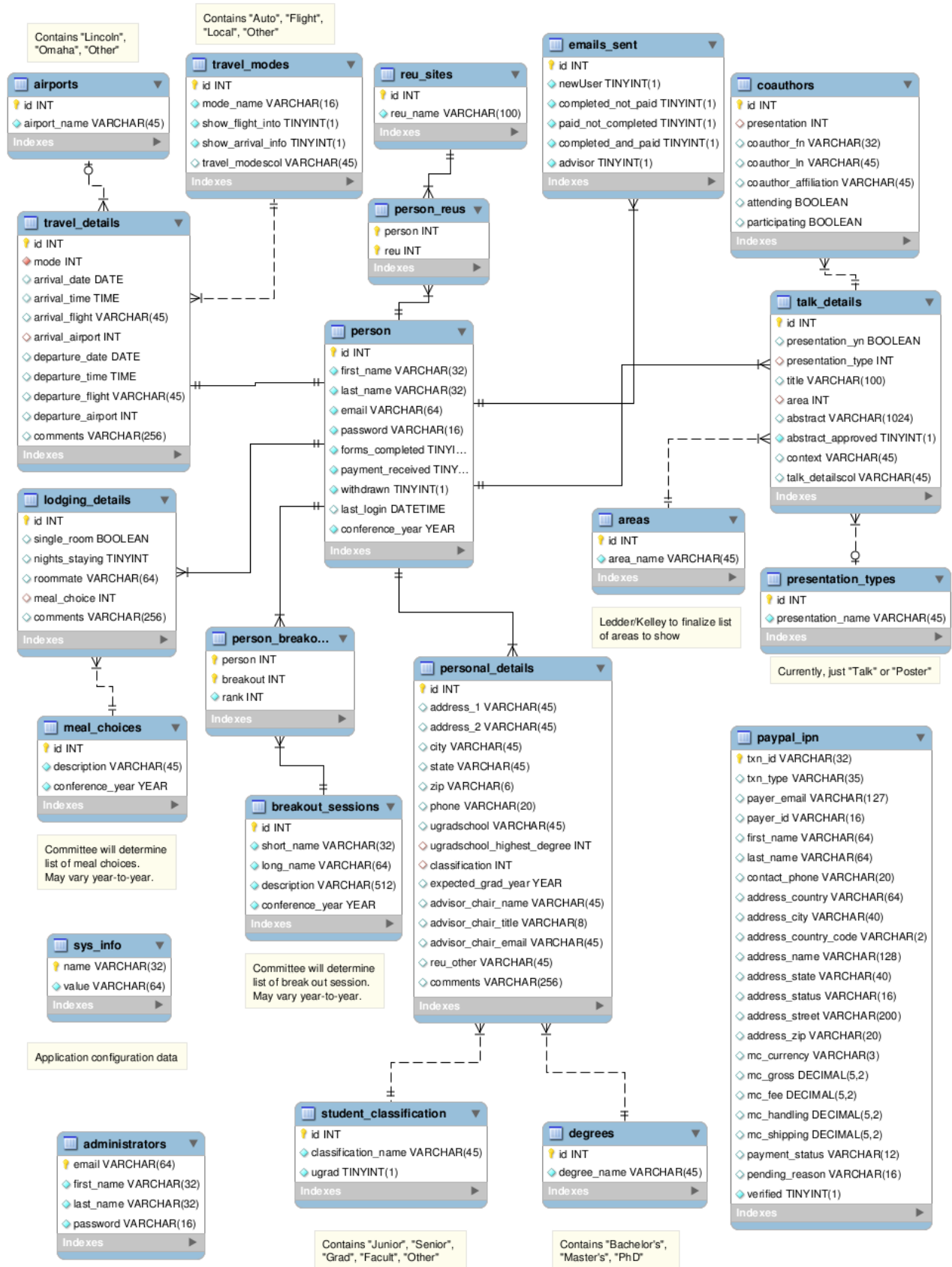
Talk	
Talk	Yes/no
Talk or poster	Short talk/poster
Title	
Area	Selected from a list. Kelley and Ledder will advise.
Abstract	
Equipment	There is a limited list of options and we don't accommodate others
Location	Where the work was done
Co-authors	Name and institution of one or more co-authors. Track whether co-author will attend NCUWM and whether she will be participating in the presentation.

Breakout session	
Preferences	Set of preferences from a list. List content TBD by Committee.

Lodging Details	
Single room	Yes/No
Room mate	Enter a name
Days stayed	Number of nights at the hotel
Meal choice	Chosen from list. List content TBD by Committee.

Administration	
Withdrawn	Mark checkbox if the participant will not be attending
Paid	Mark checkbox when registration is received
Created	(internal timestamp) Indicate when participant first registered
User modified	(internal) Indicate when participant last made changes to her record
Admin modified	(internal) Indicate when the administrator last updated the record

Data schema:



Supported platforms:

The site will employ industry standard technologies and will comply with W3C standards. However the variation in browser capabilities makes it impossible to guarantee performance on all platforms. The site will undergo QA on the following platforms:

Operating System	Browser
Windows XP	Internet Explorer 8
Windows XP	Firefox 3.5
OS X Leopard	Safari 4.0
Linux Fedora 10	Firefox 3.5

Technologies:

The site will employ the following industry-standard technologies: HTML, CSS, PHP, Javascript with a MySQL database. More specifically, the site will be developed for:

Site Component	Technological Solution
Web server	Apache HTTPD 2.2 on Fedora Linux
Database	MySQL 5.0 on Fedora Linux
Server pages/PHP	PHP 5.2
Page markup	XHTML 1.0 (transitional), CSS 2.1

AJAX techniques will not be used, so as to avoid the need for complex cross-browser testing. In the same spirit CSS use will be restricted to a safe subset of CSS 2.1 that enjoys broad browser compatibility. The site will employ the UNL Web Templates and standard styling.

Deployment:

The site will be developed on at the site <http://www.webskate101.com/ncuwm> (a development machine maintained by John Orr) and will be live deployed on <http://www.math.unl.edu/ncuwm> (Math Dept website, maintained by Rex Dieter).

Architecture:

The site will employ an MVC (Model-View-Controller) architecture. All requests will be received by the dispatcher, /index.php (all paths relative to the application root), which will delegate to business logic functions loaded from separate PHP files located in /private/business_logic. The business logic functions marshal data and transfer control to PHP view files located in /private/views. All the HTML code that is delivered to the browser is located in these view files. Any action taken by the user on the form page (typically clicking an "OK" button) triggers another request to the dispatcher (/index.php). Submission of one of the registrant data pages is delegated to the corresponding submit_XXXXX.php.

Resource	Function
/index.php	Main dispatcher for all HTTP requests
/js	Javascript files
/images	Images
/css	CSS files
/private	Direct server access to this folder is prohibited by /private/.htaccess.
/private/business_logic	The business logic functions called by index.php
/private/views	HTML and PHP logic to present the forms for the user

Resource	Function
/private/lib	Utilities shared by the site
/private/templates	UNL WDN Templates files for header and footer
/private/config.php	Holds the connection info for the MySQL database

