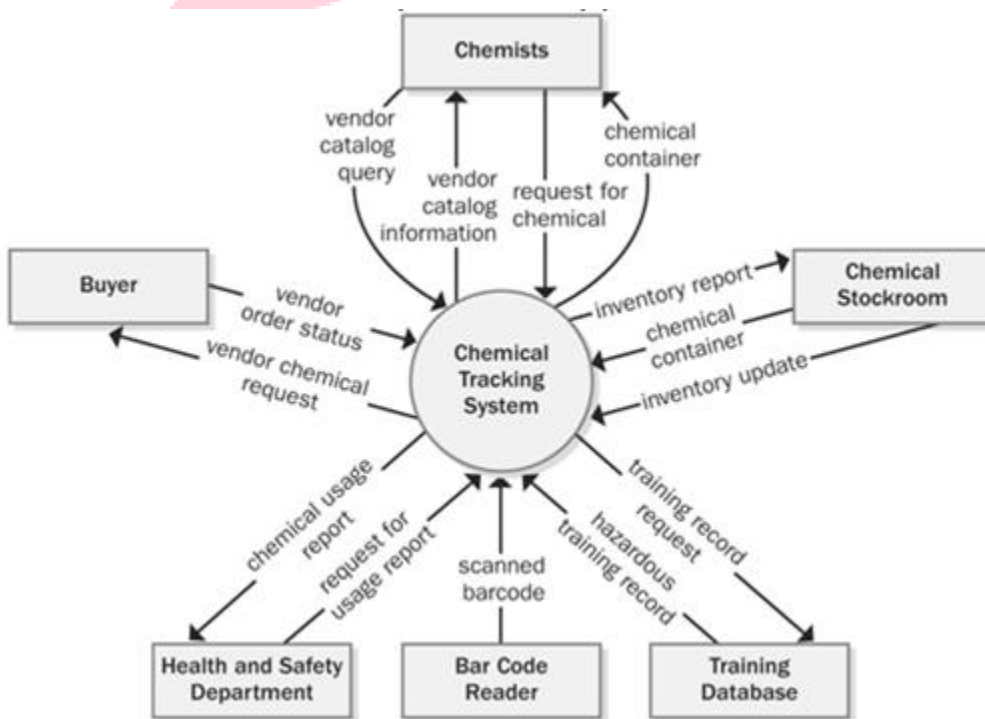
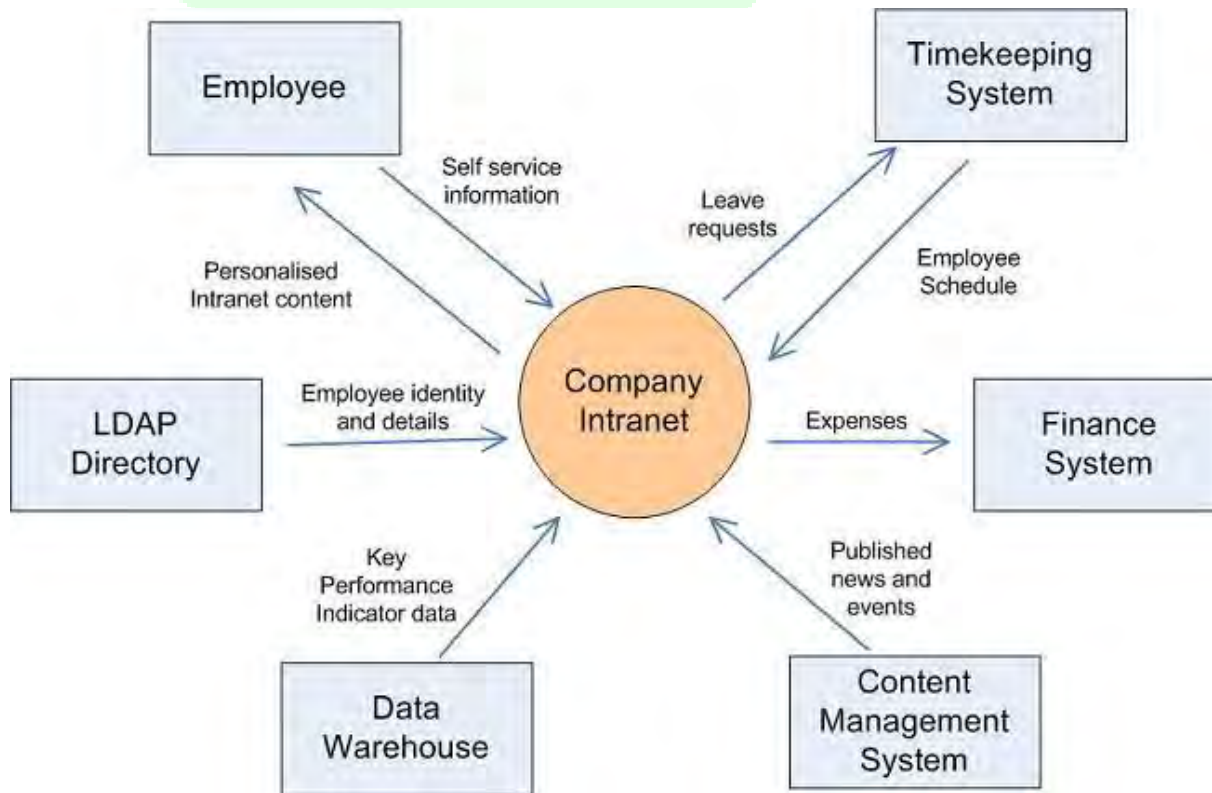


Agile Requirements Modeling with Samples

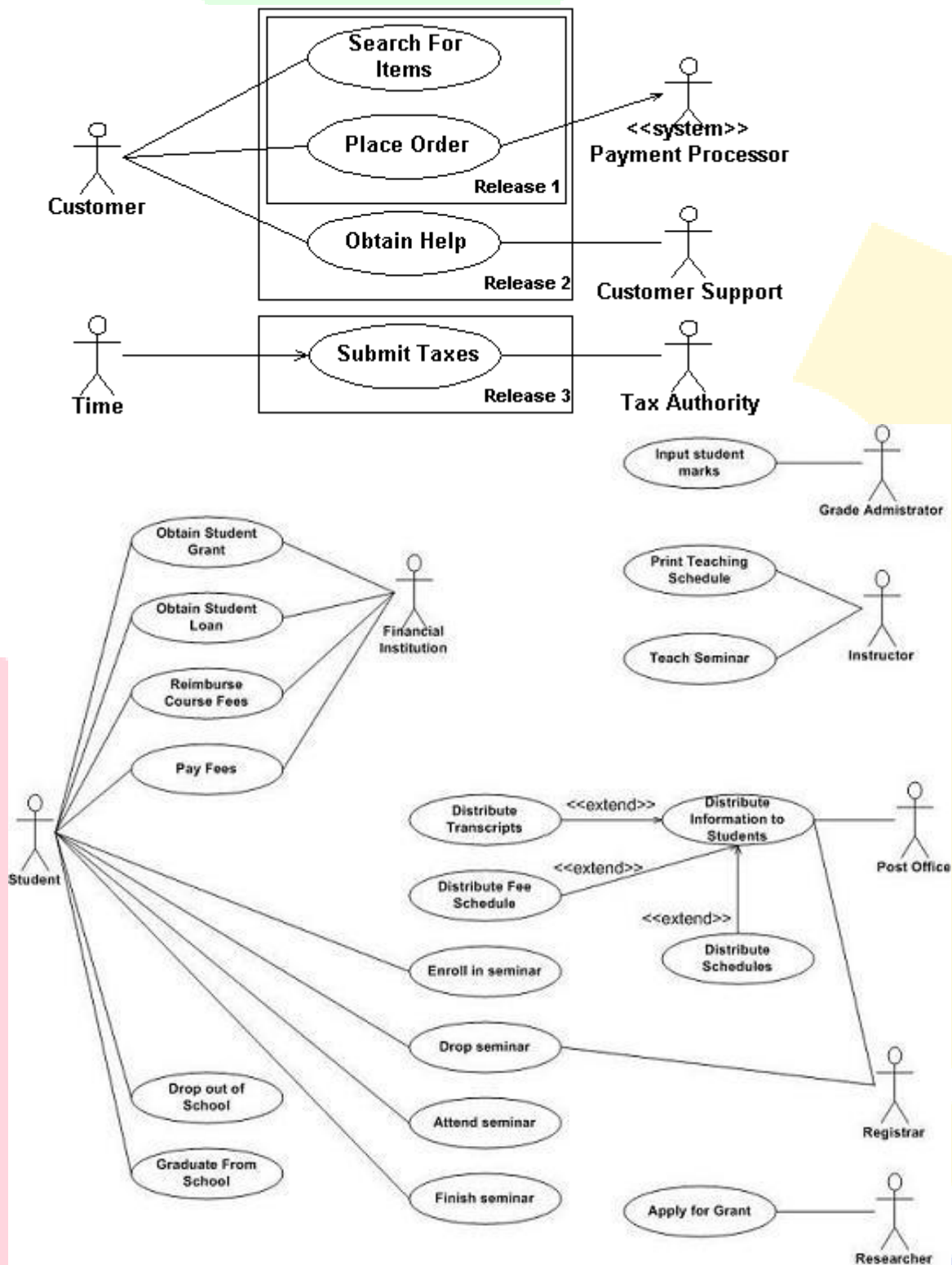
Method	Purpose/Goal
✚ Develop a project charter/vision.	Define the vision statement and business opportunity you are trying to achieve, the objectives and conditions of satisfaction.
✚ Build high level context diagram.	Clear understanding of all the actors <i>outside</i> of the system (people, internal systems, external systems) and <i>how</i> they interface with your system.
✚ Develop High Level Use Case Diagrams.	Gain a better understanding of each “actor/role” who using the system, and <i>what</i> their main goals are. This helps identify the major business processes the system needs to accomplish.
✚ Develop a high level business process model (AS-IS and TO-BE).	Take each major business process identified above and draw a business process diagram that describes the major activities, decision points and how exceptions are handled.
✚ Develop a user interface flow/sitemap diagram.	The goal is to gain a high level architectural understanding of how the screens flow in the system. This helps identify missing system features or may help rethink existing features. It provides a foundation for thinking of system usability.
✚ Develop a domain model and data flow diagram . Develop a glossary of terms.	To identify the major “nouns”/business entities of the system and the relationship between them. To visualize the flow of data between processes. The glossary helps define terms used.
✚ Develop a master Feature List /Feature Breakdown Structure.	Listing of all features of the system grouped by theme.
✚ Develop a product roadmap and dependency chart.	Which features will be delivered in which release? Prioritization and dependency of features need to be addressed to complete the product roadmap.
✚ Breakdown features and epics to smaller features.	Use the epic breakdown methods to create a list of smaller features.
✚ Develop a release plan .	This aims to show which feature will be delivered when during the project. This schedule creates smaller milestones that can be tested early.
✚ Document the details through Business Rules, Acceptance Tests, Test Examples.	These aim to describe the details of a specific small feature. They demonstrate the tests that must pass for this feature to be accepted as ‘Done’ and any supporting business rules. Test Examples are used when there are any complicated business rules.
✚ Model the details through UI Prototypes.	Show visually what the screen could look like, helps the user visualize their need.

A good modeling reference can be found at: www.AgileModeling.com

Sample Context Diagram

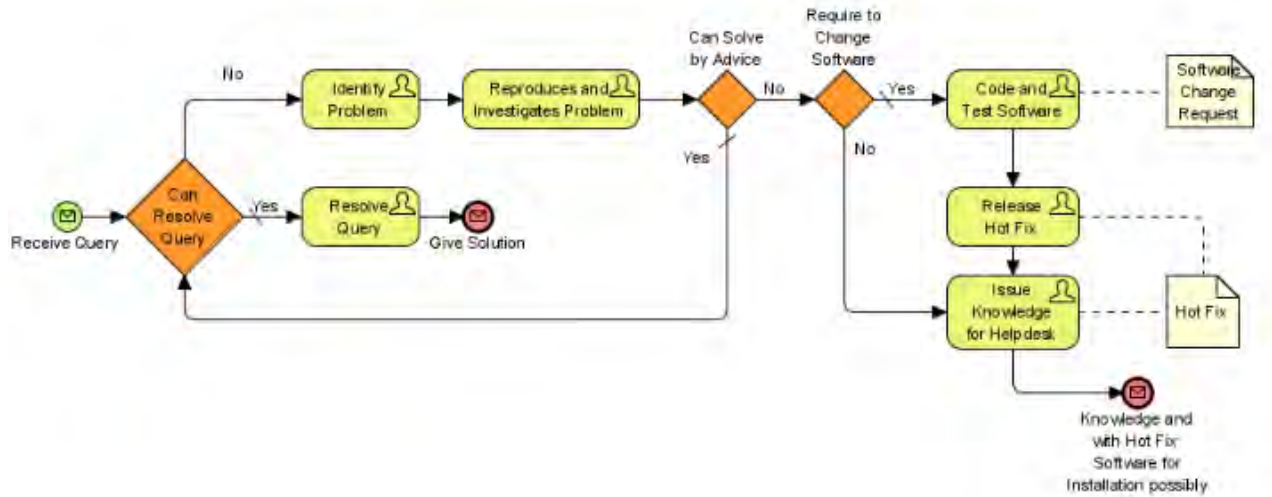


Sample Use Case Diagram

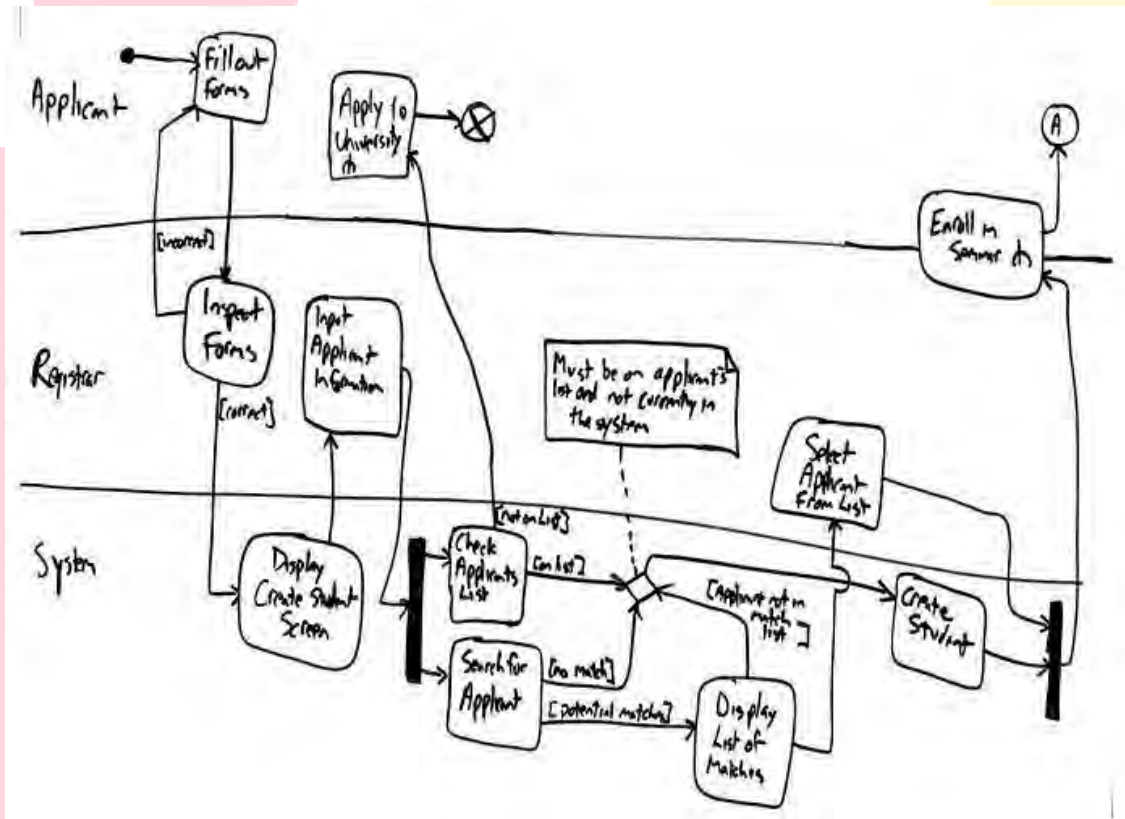


Sample Business Process Diagram

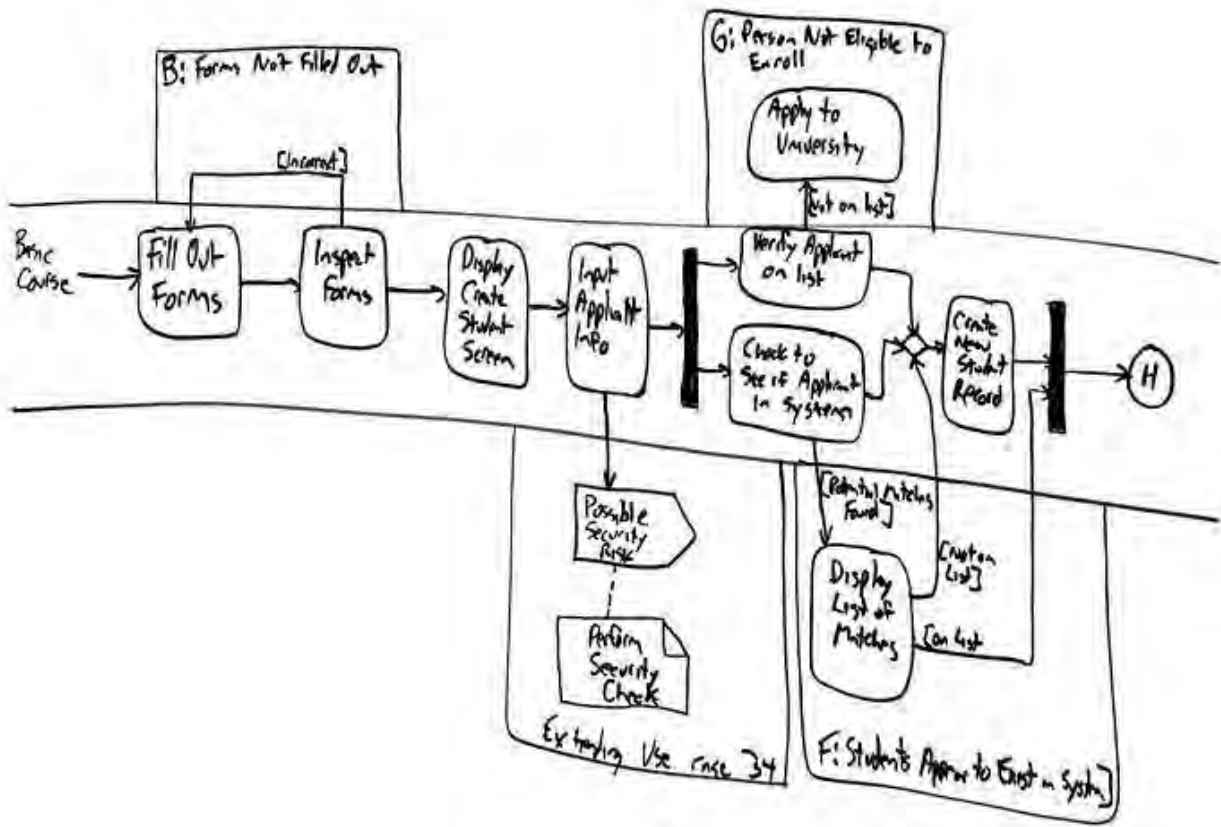
New to process diagramming? Read this article: <http://tinyurl.com/yfn4g6c>



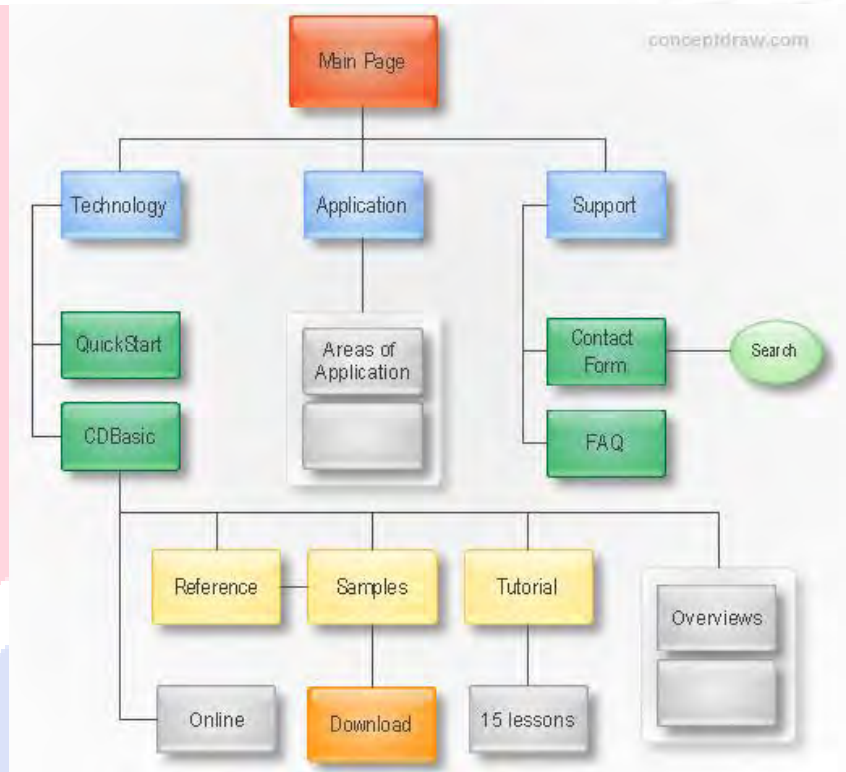
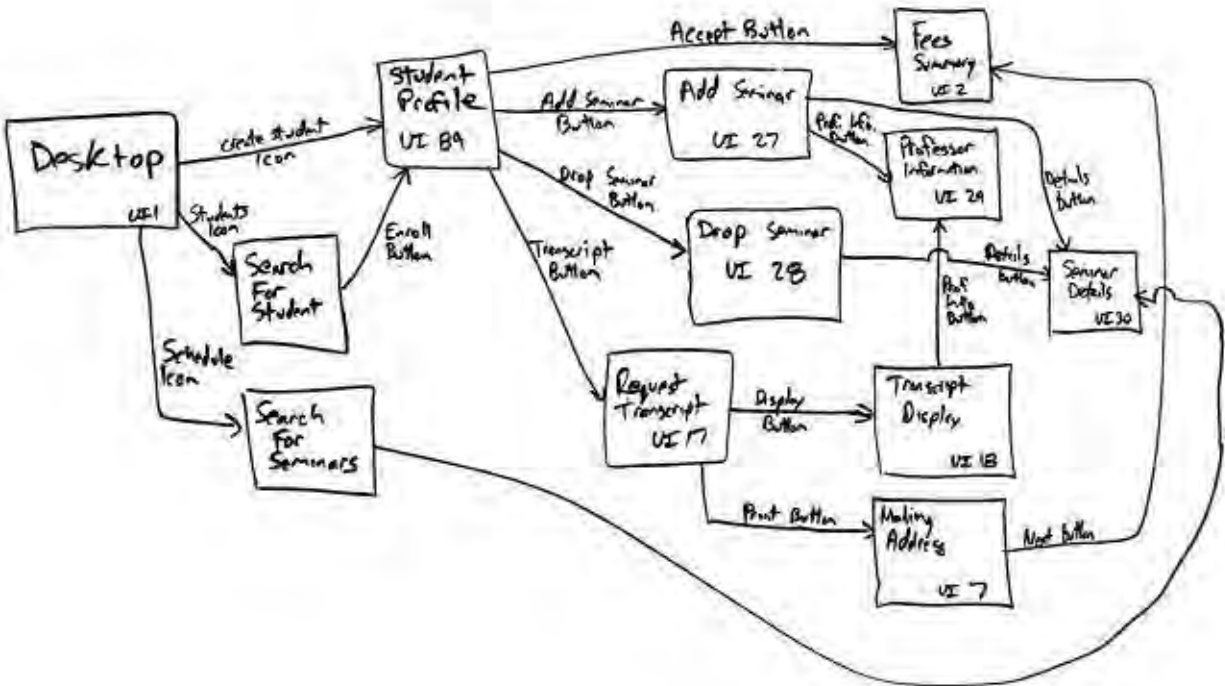
Swim Lane Diagram



Alternative Course-Based Diagram



Sample User Interface Flow/ Sitemap

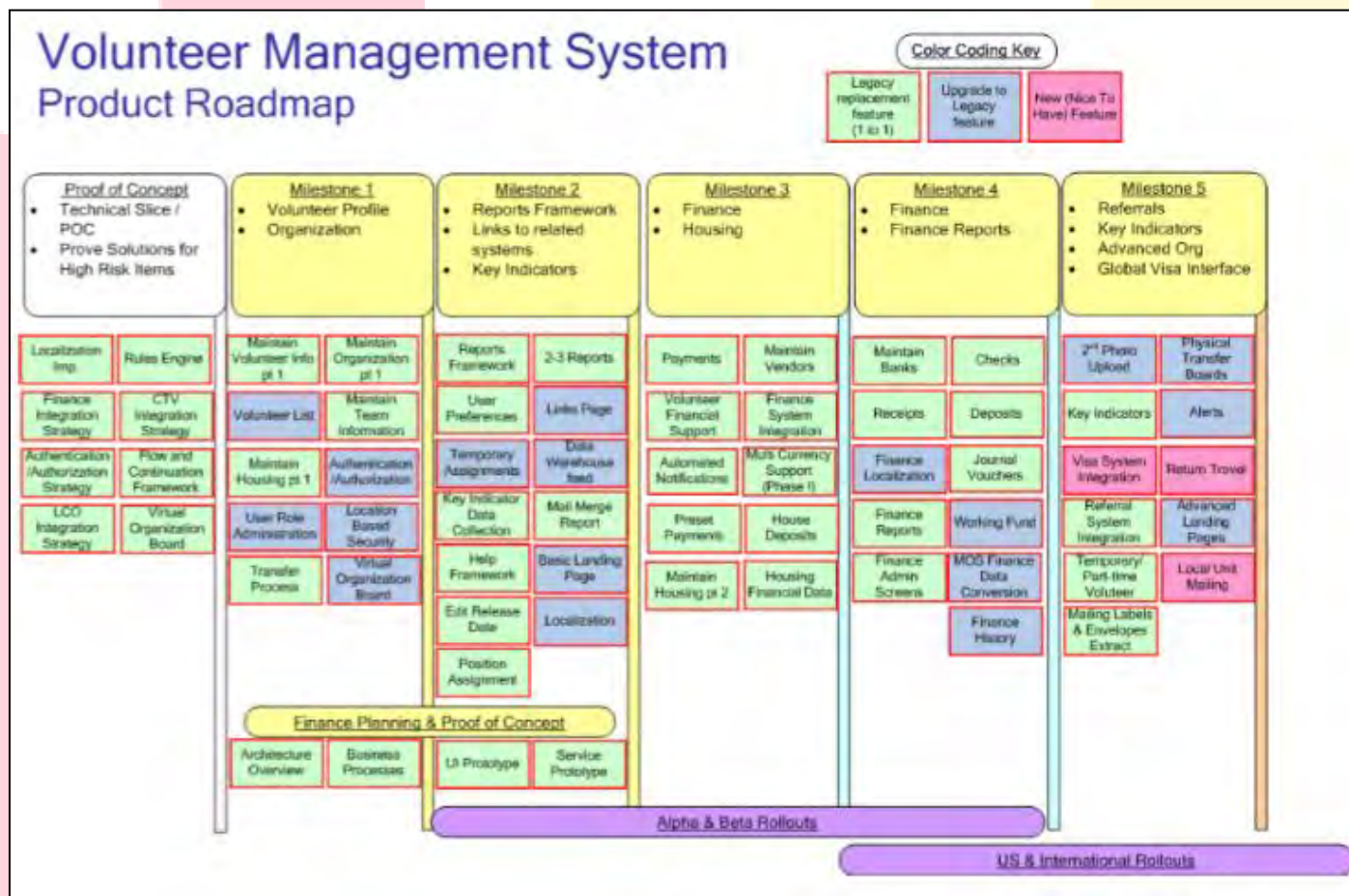


Sample Feature Breakdown Structure

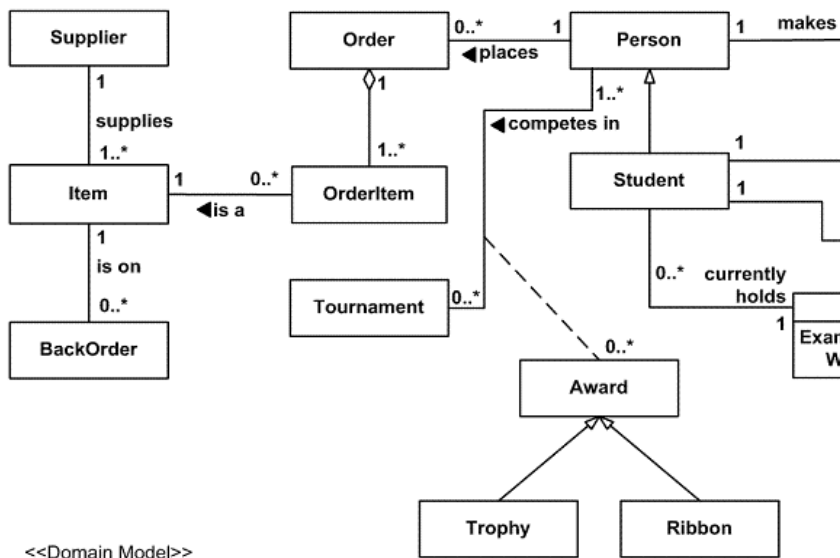
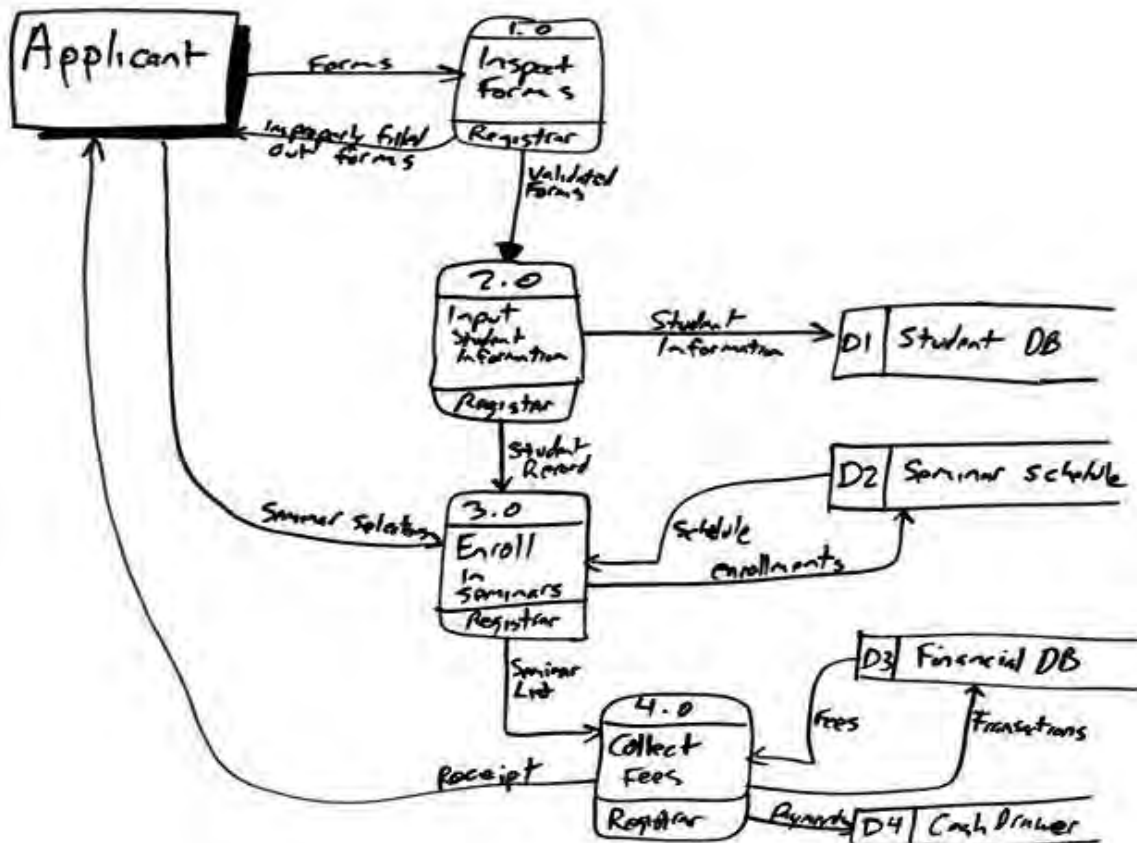
- **Sales Management (Business Subject Area)**
 - Prospecting (Business Activity)
 - Create sales person log on (Feature)
 - List leads for the sales person
 - Display individual lead detail
 - Territory Management
 - Sales Analysis
- **Marketing**
 - Lead Generation
 - Lead Follow-Up
 - Advertisement Placement
 - Call Center Service

1 - Security
1.1 Customer Login
1.2 Customer registers for new online account
1.3 Customer retrieves forgotten password
1.4 Customer adds password hint
2 - Profile Management
2.1 Customer creates new profile
2.2 Customer updates existing profile information
3 - Place Order
3.1 Customer searches product list
3.2 Customer browses all products
3.3 Customer adds product to cart
3.4 Customer completes order
* 3.5 Customer views product reviews

Sample Product Roadmap



Sample Data Flow and Domain Models



<<Domain Model>>
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Sample Business Rules, Acceptance Tests and Test Data

Acceptance Tests:

“A customer can pay for shopping cart items using a credit card”

- Test with VISA, MasterCard and American Express (pass)
- Test with Diner’s Club (fail)
- Test with bad and missing 3 digit codes (fail)
- Test with expired cards (fail)
- Test with a purchase amount over the card limit (fail)

1.1 Customer Login	TC1	Verify that customer with valid user name and password can login successfully
1.1 Customer Login	TC2	Verify that customer with invalid user name cannot login and gets correct error message
1.1 Customer Login	TC3	Verify that customer with invalid format for user name or password cannot login and gets correct error message
1.1 Customer Login	TC4	Verify that customer who forgets to input user name or password gets correct error message
1.1 Customer Login	TC5	Verify that different users in different roles can login and are forwarded to appropriate landing page

Figure 1. Some sample business rules (summary form).

- BR123 Tenured professors may administer student grades.
- BR124 Teaching assistants who have been granted authority by a tenured professor may administer student grades.
- BR177 Table to convert between numeric grades and letter grades.
- BR245 All master’s degree programs must include the development of a thesis.

Test Examples:

	Test Case Description	Expected Results	Test Data
	1.1 As a Student I want to register for online access so I can enroll for this semester.		
	1.1-TC1 Verify that the student eligibility rules are applied during registration		
BR1-T001	Student with a 'Hold' record cannot register	Screen displays error message	ID 123-45-6789
BR1-T002	Student with no 'Hold' record can register	Screen allows registration and displays next page.	ID 999-99-9999
BR2-T001	Students with outstanding payments cannot register.	Screen displays error message	ID 123-45-6789
BR2-T002	Students with no outstanding payments can register	Screen allows registration and displays next page.	ID 999-99-9999

Sample Release Plan

1/1/08	12/31/07	12/30/07	12/29/07	12/28/07	12/27/07	12/26/07	12/25/07	12/24/07	12/23/07	12/22/07	12/21/07	12/20/07	12/19/07	12/18/07	12/17/07	12/16/07	12/15/07	12/14/07	12/13/07	12/12/07	
ITERATION 1																					
ITERATION PLANNING	STORIES		STORY POINTS	Owner	STORY GOAL																DEMO & RETROSPECTIVE
					Target	Actual															
	1.1 Customer Login		2	Larry	Done	Not Done															
	1.2 Customer registers for new online account		3	Adam	Done	Not Done															
	1.3 Customer retrieves forgotten password		3	Mary	Done	Done															
	2.1 Customer creates new profile		5	Adam	Done	Done															
	2.2 Customer updates existing profile information		2	Mary	Done	Done															
	100.1 Migrate customer data from legacy system to new oracle db		8	Larry	Done-Carryover	Done															
Iteration #1 Story Points					Iteration	15	18														
					Cumulative	33	28														
1/2/08	1/3/08	1/4/08	1/5/08	1/6/08	1/7/08	1/8/08	1/9/08	1/10/08	1/11/08	1/12/08	1/13/08	1/14/08	1/15/08	1/16/08	1/17/08	1/18/08	1/19/08	1/20/08	1/21/08	1/22/08	
ITERATION 2																					
ITERATION PLANNING	STORIES		STORY POINTS	Owner	STORY GOAL																DEMO & RETROSPECTIVE
					Target	Actual															
	3.1 Customer searches product list		3	Adam	Done	Done															
	3.2 Customer browses all products		2	Larry	Done	Done															
	3.3 Customer adds product to cart		5	Mary	Done	Done															
	3.4 Customer completes order		8	John	Milestone: Show order saved to db	Milestone Done															
	* 3.5 Customer views product reviews		5	Greg	Done	Not Done															
	1.1 Customer Login		2	Larry	Done-Carryover	Done															
1.2 Customer registers for new online account		3	Larry	Done-Carryover	Done																
Iteration #2 Story Points					Iteration	15	15														
					Cumulative	48	43														

Sample UI Prototype

Student Information Help

Student Number: 789-567-234

First Name:

Middle:

Surname:

Salutation:

Date First Enroll: June 14 2003

Seminars:

Seminar	Term	Mark	Status
CSC 100 Intro to CS	Fall 2003	A+	Passed
CSC 200 Intro to AM	Fall 2003	A	Passed
CSC 203 Advanced AM	Spring 2004	-	Enrolled

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Views: 1,234

Views: 1,234

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Awesome Article

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LATEST FROM FUEL

Awesome Article

Awesome Article

Awesome Article

Tinder

Twitter Feed

lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut nec lacus a neque pulvinar pulvinar. Aliquam sagittis, purus in fermentum ornare, orci lacinia vulputate sapien, a rutrum nisi mi eu mi.