Table of Contents

Problem definition.....2

Scope.....2

Customer Requirements Specification (CRS).....2

Feature Requirements.....2

Hardware Requirements.....4

Software Requirements.....4

Security Requirements.....4

Architecture & Design of the Project.....5

ER Diagram.....6

Database Design/Structure.....7

Mockups.....10

Login screen.....10

Main screen.....11

User management screen.....12

Log screen.....13

About user screen.....14

Problem definition

The project on Intranet Module shall be a useful product for managing the courier services within a organization. It facilitates the users to send the couriers to other person and to receive from others.

Scope

This project should provide the facility to all users to send and receive the courier. They can also update and delete the courier, and also get the information of the status of the courier.

The scope of project shall be described in following points:

1) BENEFITS

The main benefit of this project is that it facilitate user to communicate in a faster manner in comparison of manual system. Through this system the current status of the courier can be known

easily whereas in manual system it is a difficult task.

2) OBJECTIVE

To provide quick service without any delay.

Customer Requirements Specification (CRS)

Feature Requirements

The software can be used by many users in different roles having different functionalities.

Administrator

This department have all right to provide or restrict to any department or employee to the functionality of the project.

Add Employee

Only the administrator will add the employee information and provide the login id and password when any new employee will recruit into the enterprise of the courier services.

Manage Attendance Sheet

The presentation or absent of the employee will be handled by the administrator. Any employee can not get their proxy attendance by the change of system date or any other type.

Query Courier Information

Administrator has the right to get any information about the courier at any time without any permission of regarding department.

Query Employee Information

The employee database can be updated by the administrator department and the administrator can get the any information about the employee working status.

Update Calculation Table

Only the administrator have right to change the Calculation table as per the changes in the transportation cost.

Working department

Create New Courier Entry

Only the working department will enter the information of the new courier into the data base.

Update Courier Entry

The working department employee can change the information about the courier as per the request of the user with in the fix time.

Delete Courier Entry

The working department employee can cancel the courier as per the request of the user with in the fix time.

Dispatching department

Update Courier Entry Status

It can update the status of the courier where the courier is at the current time.

Query Courier Information

The dispatching department employees can get the information of the courier.

Inquiry

All of the above mentioned departments can make inquiries.

Inquiry of Charges

This feature will facilitate to make calculation of the amount for sending a courier on the basis of the destination, weight & rate/kilogram.

Inquiry About Employee

Through this feature the employee can retrieve the information about other employees.

Inquiry About Courier

When the user is needed the information about the courier then employee can tell the current status of the courier by this feature.

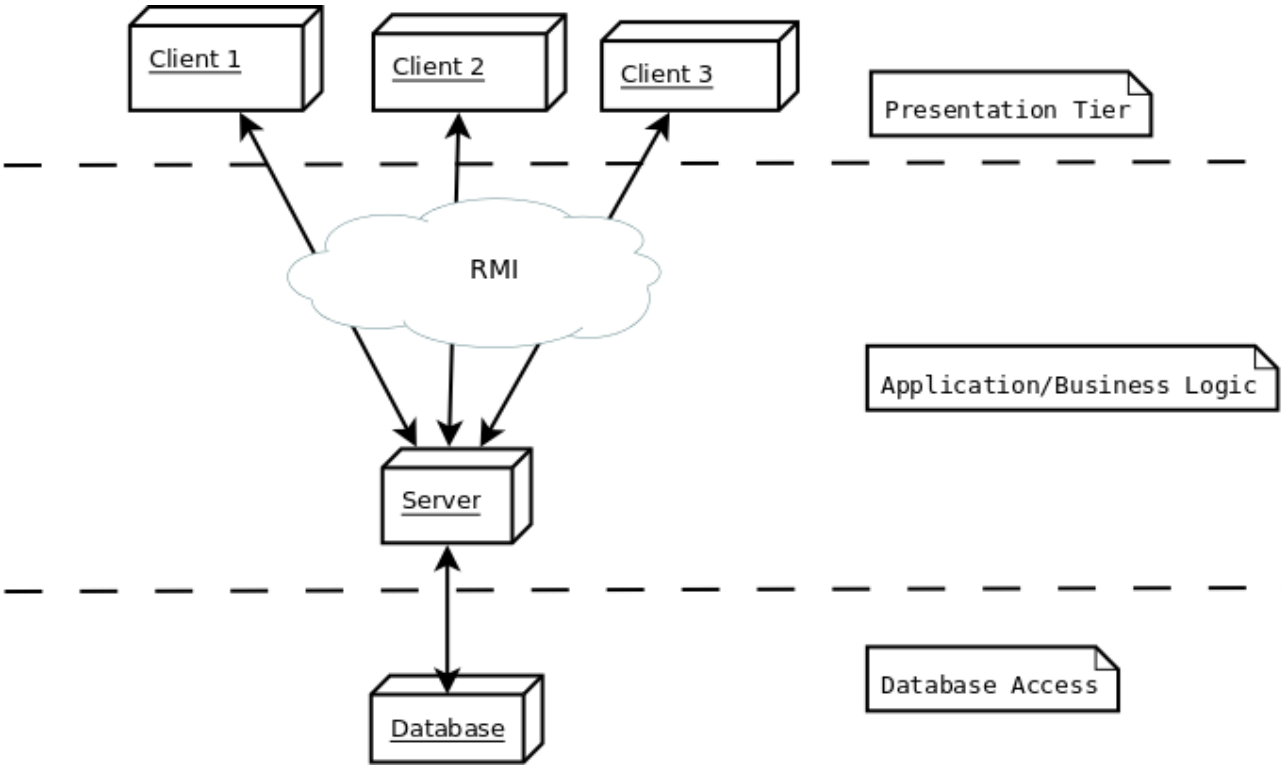
Hardware Requirements
The performance requirements of this product shall be not very critical. The system shall be perform efficiently at 64 MB RAM. The product could run also at 32 MB RAM but to perform well it is necessary to require the above specified quantity of RAM.

Software Requirements
The software will run on a system with:

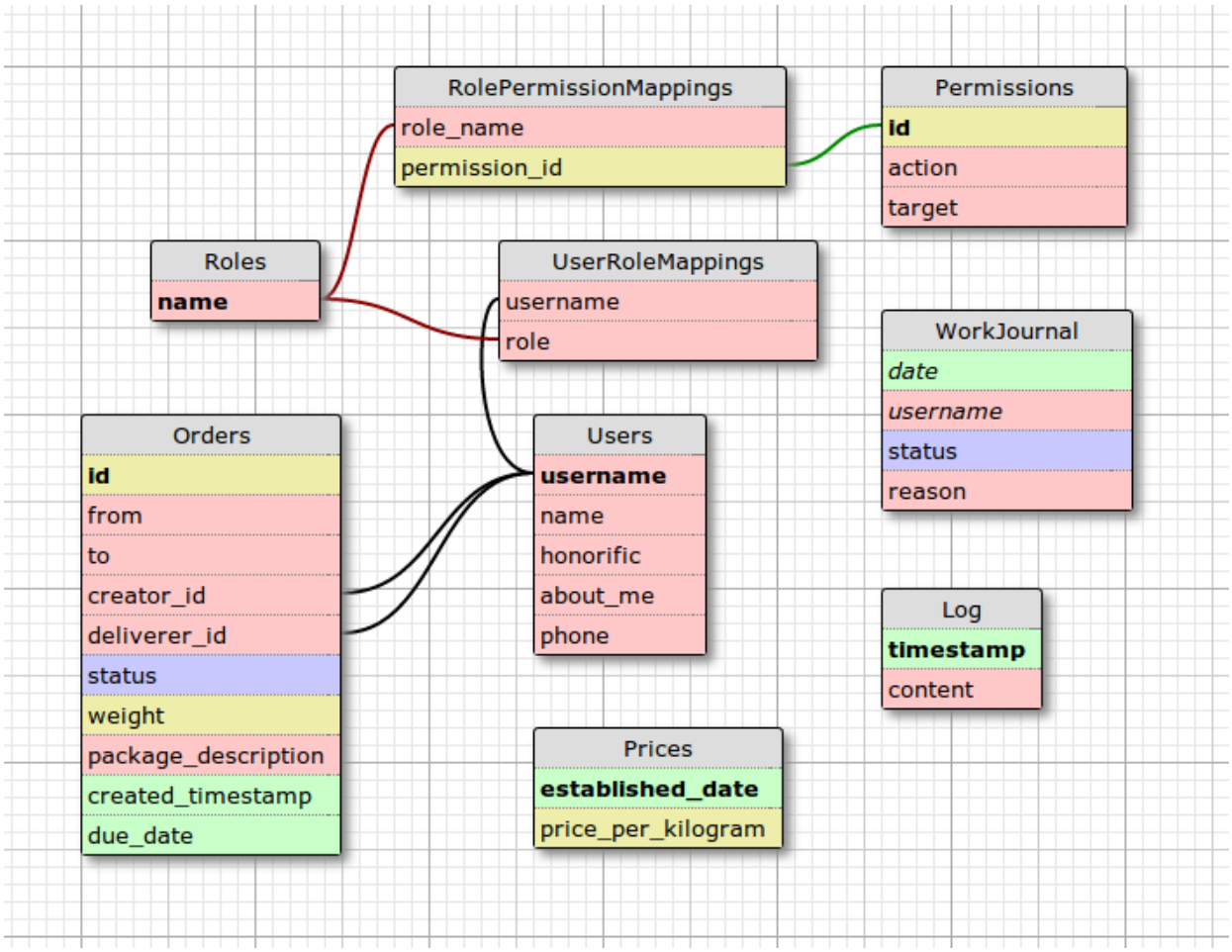
- Windows XP
- Java SE 7.0
- MS SQL Server 2008 (only required for the server module)

Security Requirements
Security of the system shall definitely be maintained through the password system. The system should be divided in the four security module concern. These are administrator, enquiry department, working department, dispatching department. Each and every employee of every department will be authenticated with a login id and password. Any employee can not change the system date to make proxy presentation of yourself.

Architecture & Design of the Project



ER Diagram


RolePermissionMappings
role_name
permission_id
Permissions
id
action
target
Roles
name
UserRoleMappings
username
role
WorkJournal
date
username
status
reason
Orders
id
from
to
creator_id
deliverer_id
status
weight
package_description
created_timestamp
due_date
Users
username
name
honorific
about_me
phone
Log
timestamp
content
Prices
established_date
price_per_kilogram

Database Design/Structure

Users				
Field Name	**Data Type**	**Null**	**Key**	**Description**
username	VARCHAR(20)	No	PK	
name	VARCHAR(40)	No		
honorific	VARCHAR(20)	Yes		
about_me	MEDIUMTEXT	Yes		
phone	VARCHAR(20)	Yes		

Roles				
Field Name	**Data Type**	**Null**	**Key**	**Description**
name	VARCHAR(20)	No	PK	
UserRoleMappings				
Field Name	**Data Type**	**Null**	**Key**	**Description**
username	VARCHAR(20)	No	FK	
role_name	VARCHAR(20)	No	FK	

Permissions				
Field Name	**Data Type**	**Null**	**Key**	**Description**
id	INT	No	PK	
action	VARCHAR(40)	No		A simple action (e.g. create, update, delete)
target	VARCHAR(40)	No		The target of the action (e.g. order.status)

RolePermissionMappings				
Field Name	**Data Type**	**Null**	**Key**	**Description**
role_name	VARCHAR(20)	No	FK	
permission_id	INT	No	FK	

Orders				
Field Name	**Data Type**	**Null**	**Key**	**Description**
id	INT	No	PK	
from	VARCHAR	No		Name and address of the sender
to	VARCHAR	No		Name and address of the receiver
creator_id	VARCHAR	Yes	FK	Username of the user who creates this order
deliverer_id	VARCHAR	Yes	FK	Username of the user who is currently delivering this order
status	ENUM	No		Could be one of PENDING, CONFIRMED, DELIVERING, DONE and REJECTED
weight	INT	No		The weight of the package
description	MEDIUMTEXT	Yes		The description of the package to

				be delivered (color, size, important notices, etc.)
created_timestamp	TIMESTAMP	No		Timestamp of when the order is created
due_date	DATETIME	Yes		The date and time at which the order is due to be delivered

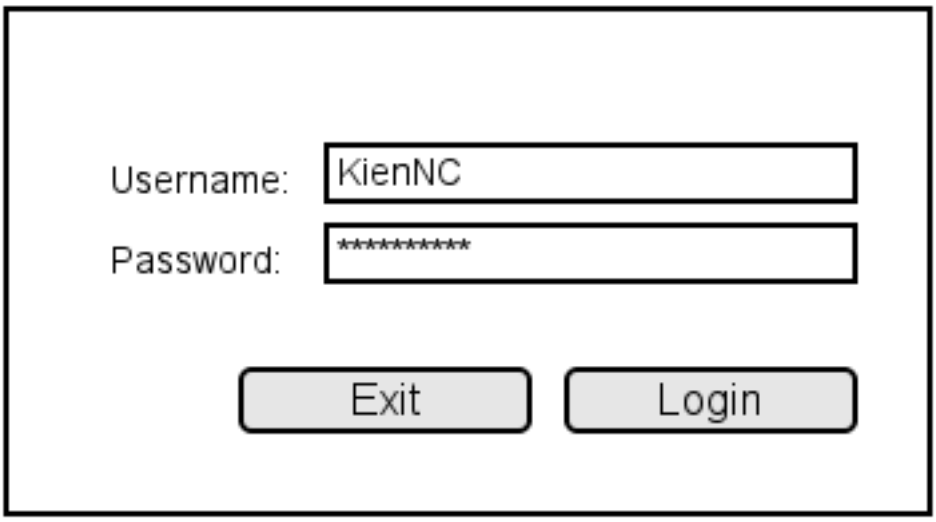
Price				
Field Name	**Data Type**	**Null**	**Key**	**Description**
established_date	DATE	No	PK	The date from which the corresponding price is effective. This will be used to query the price of an order at an arbitrary date.
price_per_kilogram	BIGINT	No		The price for delivery per kilogram (since the system is only used internally, distance doesn't matter)

WorkJournal				
Field Name	**Data Type**	**Null**	**Key**	**Description**
date	DATE	No		A date
username	BIGINT	No		The username that this work journal entry is tracking
status	ENUM	No		Could be one of PRESENT, ABSENT, ONLEAVE
reason	MEDIUMTEXT	Yes		The reason for the status above, if applicable

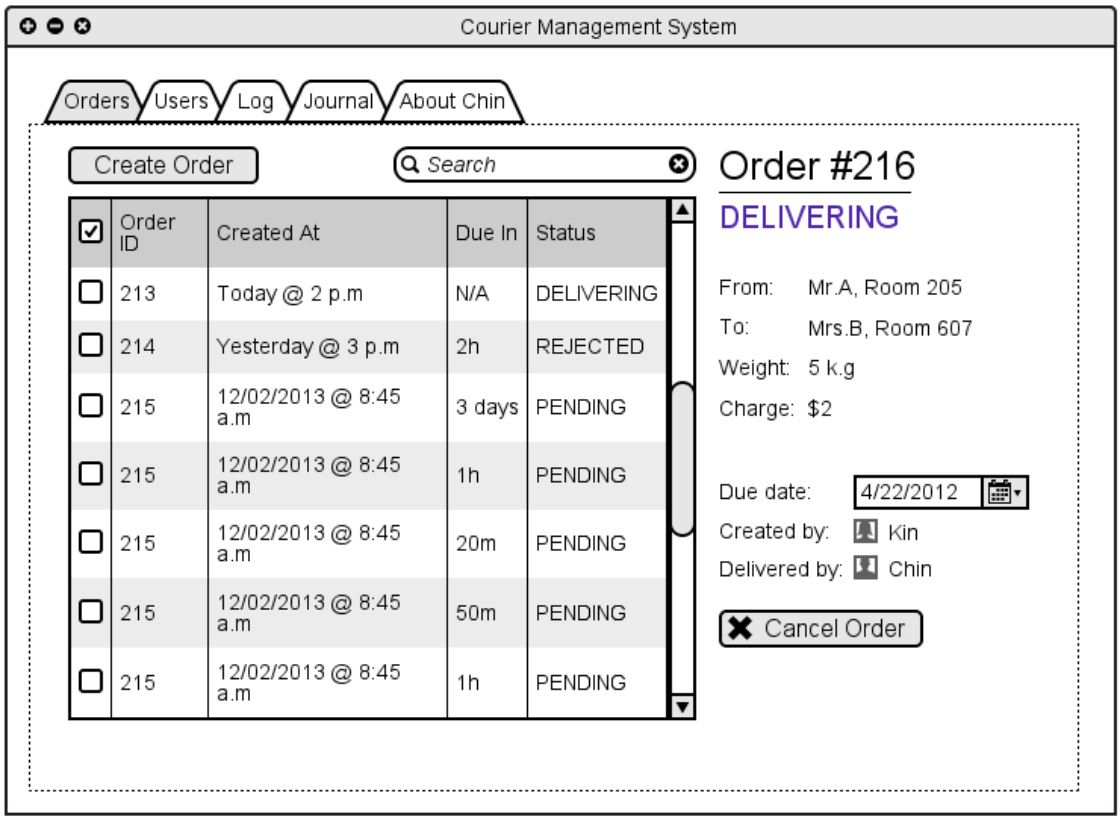
Log				
Field Name	**Data Type**	**Null**	**Key**	**Description**
timestamp	TIMESTAMP	No	PK	The moment this log entry is created
content	MEDIUMTEXT	No		The log content

Mockups

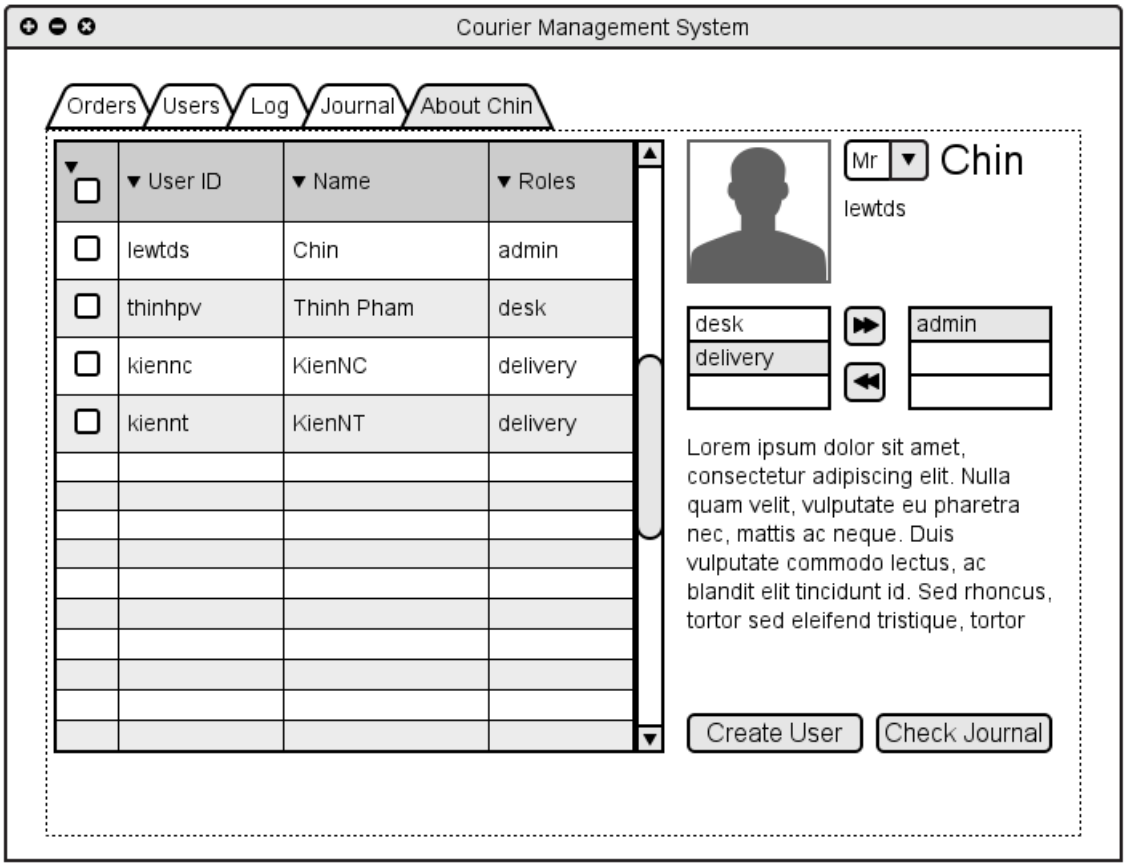
Login screen



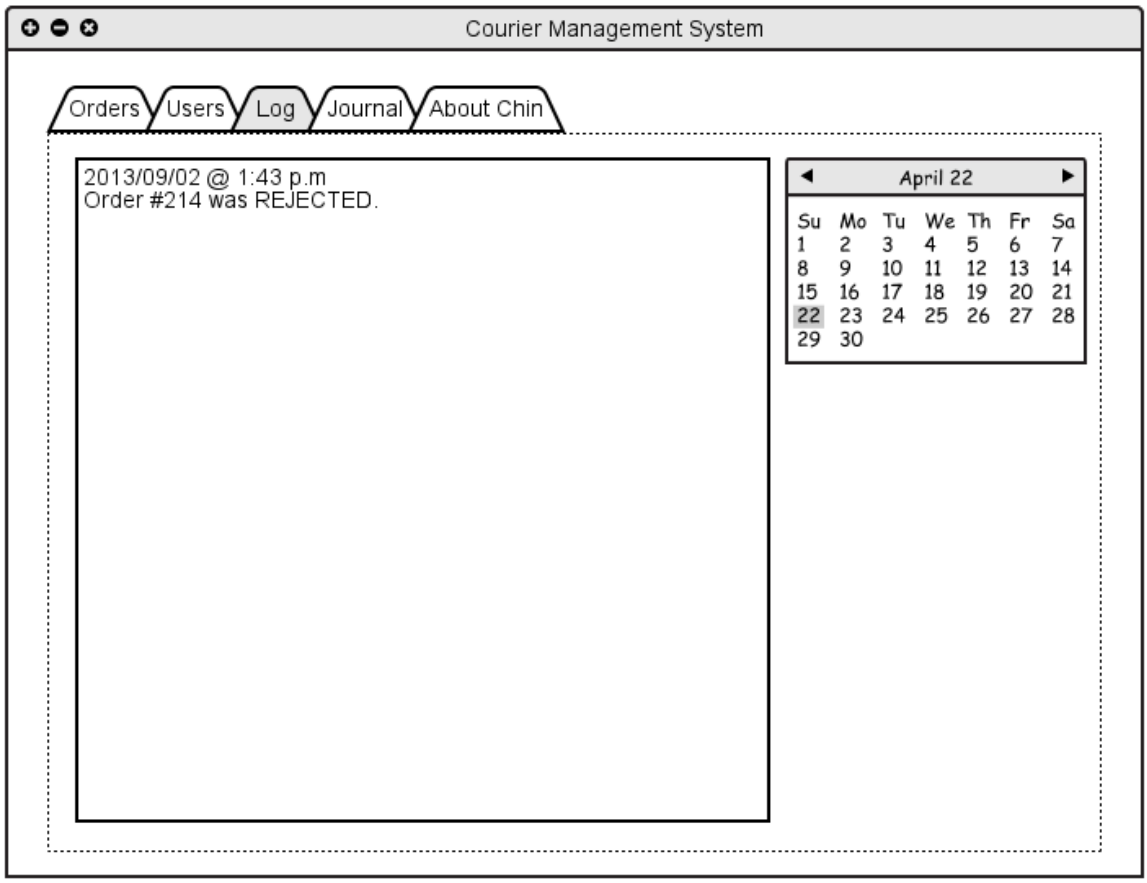
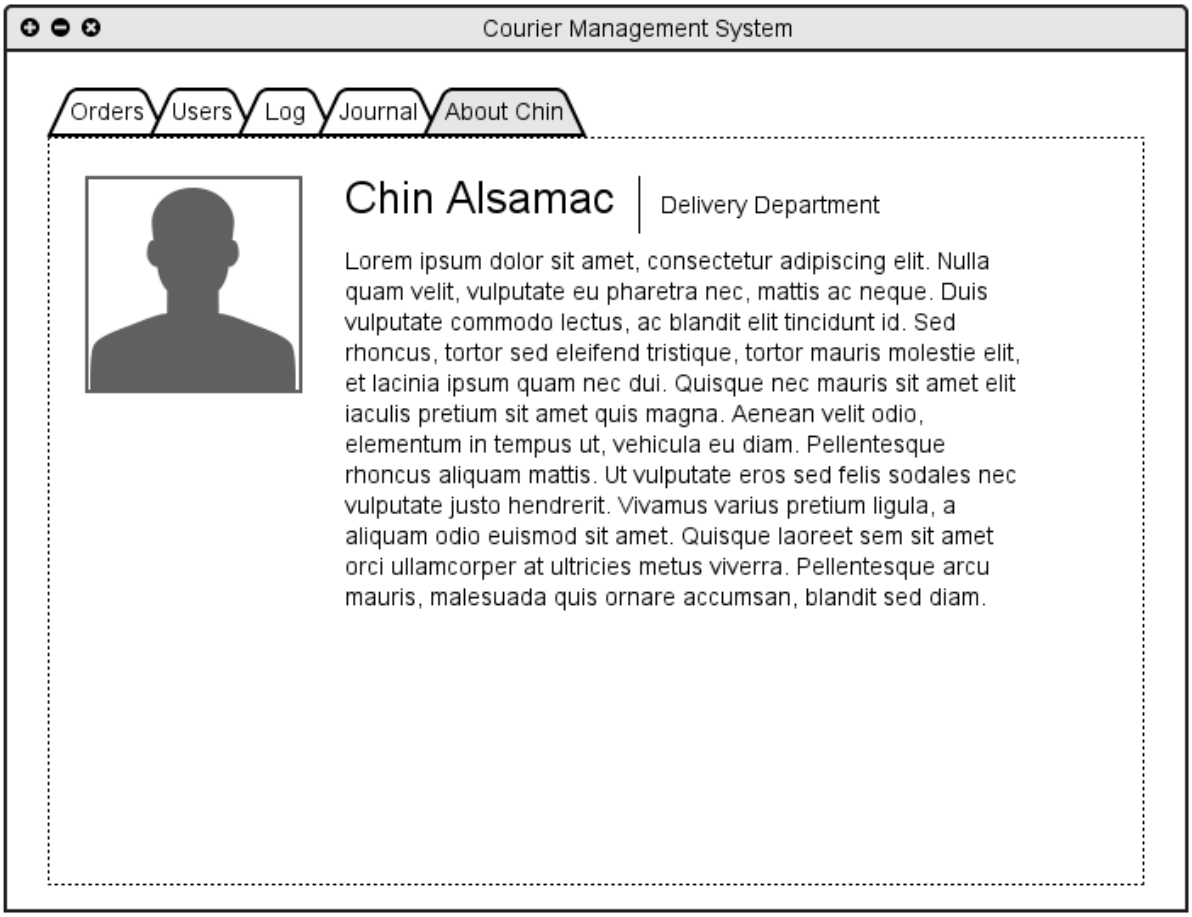
Main screen


Courier Management System
Orders
Users
Log
Journal
About Chin
Create Order
Search
Order ID
Created At
Due In
Status
213
Today @ 2 p.m
N/A
DELIVERING
214
Yesterday @ 3 p.m
2h
REJECTED
215
12/02/2013 @ 8:45 a.m
3 days
PENDING
215
12/02/2013 @ 8:45 a.m
1h
PENDING
215
12/02/2013 @ 8:45 a.m
20m
PENDING
215
12/02/2013 @ 8:45 a.m
50m
PENDING
215
12/02/2013 @ 8:45 a.m
1h
PENDING
Order #216
DELIVERING
From: Mr.A, Room 205
To: Mrs.B, Room 607
Weight: 5 k.g
Charge: $2
Due date: 4/22/2012
Created by: Kin
Delivered by: Chin
Cancel Order

User management screen



Log screen


Courier Management System
Orders
Users
Log
Journal
About Chin
2013/09/02 @ 1:43 p.m
Order #214 was REJECTED.
April 22
Su Mo Tu We Th Fr Sa
1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30

About user screen