

Iteration1

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Abstract

The following report provides an outline of the work achieved during iteration 1, and the individual contributions of each team member.

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1. Work Progress

In our initial plan we decided to focus on implementing the most important stories that involved the administrator and the sales representative. These tasks involved implementing the access control for both of these users as well as allowing them to perform basic operations on customers such as search, create, edit, view and delete.

In order to implement these tasks we searched and analysed some of the existing gems that the ruby on rails community provides. We decided to implement the Hotel Manager website using ActiveAdmin, and CanCan. ActiveAdmin is a Ruby on Rails plugin that allows developers to quickly create an admin interface and CanCan is a gem that handles authorization. ActiveAdmin allows developers to quickly create models, and it provides a clean and intuitive interface to allow administrators to manage those models.

We decided to use ActiveAdmin after weighing the pros and cons of using this gem:

Pros:

- Easy to create models (e.g., rooms, room types, etc..). This will be useful in next iterations.
- Handles authorization through the Devise gem.
- It is possible to restrict resources adding [CanCan](#) support.
- Supports pagination, search/filter-by functionality, scopes, sorts out of the box.
- Can expand controllers' functionality, and add custom views with partial forms.

Cons:

- Uses [Formtastic](#) DSL to create views (forms, sidebars, tables, etc). Steep learning-curve.
- Uses [SASS](#) to create the css stylesheets. Steep learning curve.

As one can see, the main concern with this gem was that the learning curve was going to be steeper since we had to learn how to use other gems in order to change the style of the website, and create new forms for our models. However, we concluded that the use of this gem was going to make us more efficient in future iterations because most of the future stories involve creating models and performing basic CRUD operations on these models.

It is worth mentioning that the current work was migrated to [GitHub](#).

The production version can be found at: <http://brandonkoepke.dyndns.org:3000/admin/login>. We also have an experimental reservation system which has not yet been integrated at: <http://brandonkoepke.dyndns.org:3001/reservations>.

Team Member	Contributions
Brandon Koepke	Initial setup for ActiveAdmin, CanCan, and Deployment.
Garrick Van Der Lee	High Level Diagram.
Alberto Saavedra	Worked on the Customer Management Module.
Julia Paredes	Finished CanCan setup, Sequence Diagram.
Tyler Gibb	Reviewed the Customer Management Module.
Justin Milanovic	Domain Level Diagram, Reservation System, Schema Diagram, ER Diagram.

Table 1: Individual Progress

2. Conclusion

Although the work achieved in this iteration 1 was minimal, it allowed the team to become familiar and comfortable with the agile principles practiced in the development and estimation of the user stories. This iteration was definitely a cornerstone for the future iterations and for the whole team.

3. Appendix

Iteration	User Stories	Tasks	Difficulty/Estimate	Status	Owner	Description
Iteration 1 Deadline Feb 26	Development Setup	Setup Jenkins CI system	Hard	Complete	Brandon	
		Setup rails environment	Medium	Complete	Everyone	Install Aptana, Ruby, Rails.
	Administrator is able to maintain users	Setup user access control	Hard	Complete	Brandon, Garrick	Investigate available ruby authentication plugins, setup base user access control.
		User control for administrator	Medium	Complete	Garrick, Julia	Create administrator page that has administrator specific behaviour.
		Admin can manage users	Medium	Complete	Garrick, Julia	Administrators will be able to add, delete, search, and modify user accounts.
		User permissions	Hard	Complete	Garrick, Julia	Administrators will be able to manage the permissions of other users and roles.
		UI		Complete	Justin, Julia	
	Users are able to login to the system.	User control for sales associates	Easy	Complete	Brandon, Julia	
		User control for hotel managers	Easy	Complete	Brandon, Julia	
		User control for registered customers	Easy	In progress	Brandon, Julia	
		UI		Complete	Justin, Julia	
	Customer information management	Sales associates can add/edit view one customer	Hard	Complete	Alberto	Sales associates will be able to add, modify
		Sales associates can search for specific customers	Hard	Complete	Alberto, Tyler	Sales associates will be able to do a very simple search of the customers by the customer name.
		Sales can Delete customers, view many customers	Easy	Complete	Alberto, Tyler	
		UI		Complete	Justin, Julia	
Iteration 2 Deadline Mar 19	Hotel management	Administrators can manage hotels	Hard		Alberto, Tyler	Administrators will be able to add, delete, and modify hotels.
		Users can search hotels	Hard		Alberto, Tyler	Users will be able to search hotels
	Room management	Hotel managers can manage rooms	Medium		Brandon, Julia	Hotel managers will be able to add, delete, and modify rooms.
		Hotel managers can manage room types	Easy		Brandon, Julia	Hotel managers will be able to add, delete, and modify room types.
		Sales associates can view the list of rooms	Medium		Brandon, Julia	Sales associates will be able to do a very simple search of the rooms.
	Room booking and management	Sales associates can manage room bookings	Hard		Garrick, Justin	Sales associates will be able to add, delete, and modify room bookings.
		Sales associates can view bookings	Medium		Garrick, Justin	Sales associates will be able to search for room bookings.
Iteration 3 Deadline Apr 9	Invoicing	Sales associates can record customer payments	Hard			Sales associates will be able to record customer payments and manage invoicing status.
		Sales associates can view customer billing history	Medium			Sales associates will be able to view customer billing history.
	Room service	User control for room service	Easy			
		Room service can view customers by room number	Medium			Room service associates will be able to view customers by room number.
		Room service can manage the room service bill	Medium			Room service associates will be able to add, delete, and modify the room service bill for customers at their hotel.
	Customer self-service	New customers can register to the system	Hard			Customers should be able to register with the system if they do not already have an account.
		User control for customers	Easy			
		Customers can view available rooms	Easy			Registered customers will be able to view the available rooms.
Iteration 4 Deadline May 1	Trouble ticket management	Customers can issue trouble tickets	Hard			Customers should be able to issue trouble tickets which can be managed by hotel workers.
		Sales associates can resolve trouble tickets	Hard			Sales associates should be able to view and manage trouble tickets, including responding and resolving issues.
	Housekeeping	User control for housekeeping	Easy			
		House keeping can manage cleanliness status	Hard			House keeping should be able to view room cleanliness status and mark rooms as cleaned, as well as view the rooms they are responsible for.
	Reporting	Hotel managers can produce reports on accounts receivable, hotel utilization, etc.	Hard			Hotel managers should be able to view and manage reports on the hotel's accounts receivable, view the hotel utilization, view the average rate where customers do not show up, view and suspend delinquent accounts, etc.

Figure 1: Release Plan

UI Layer

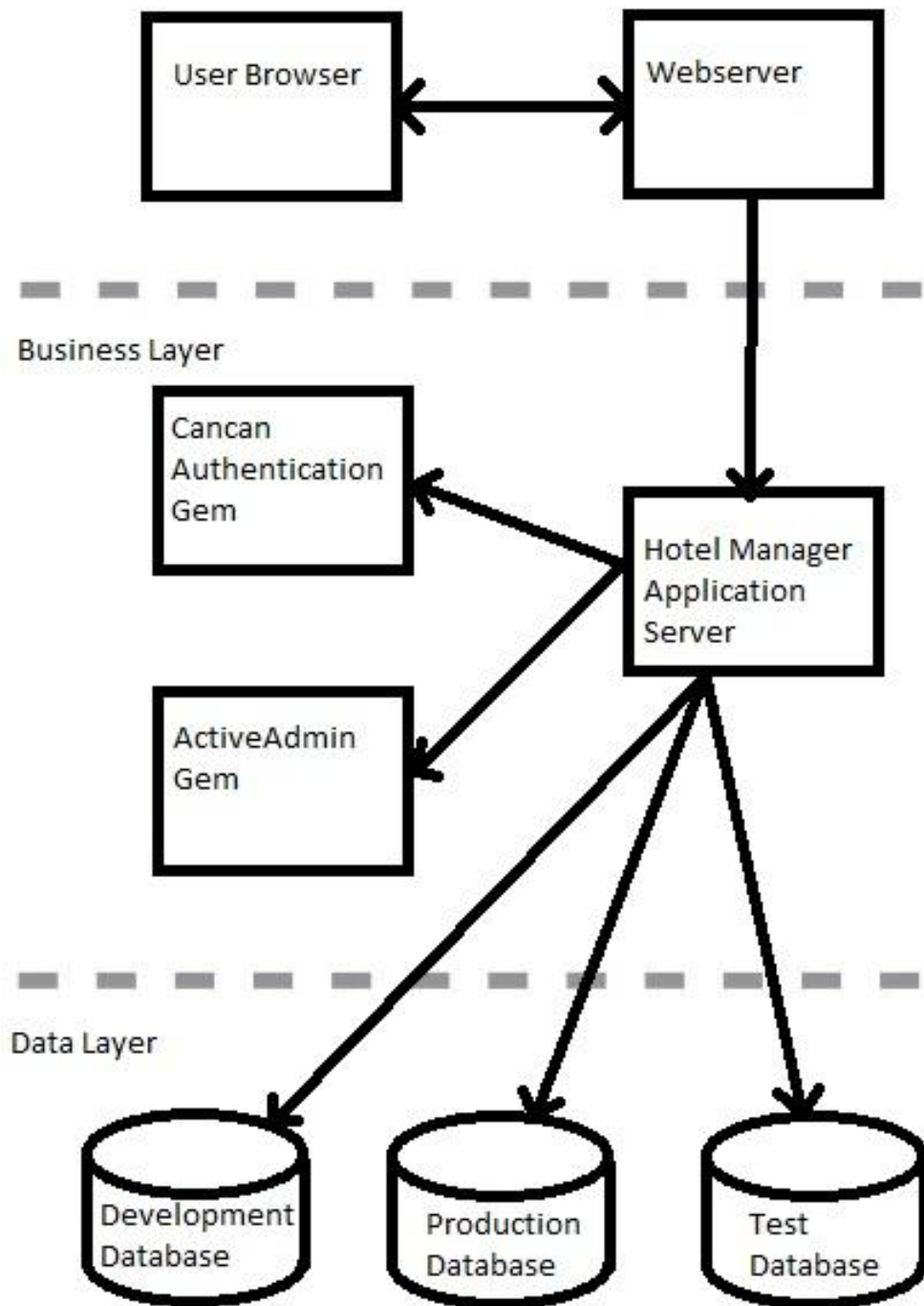


Figure 2: High Level Technology Diagram

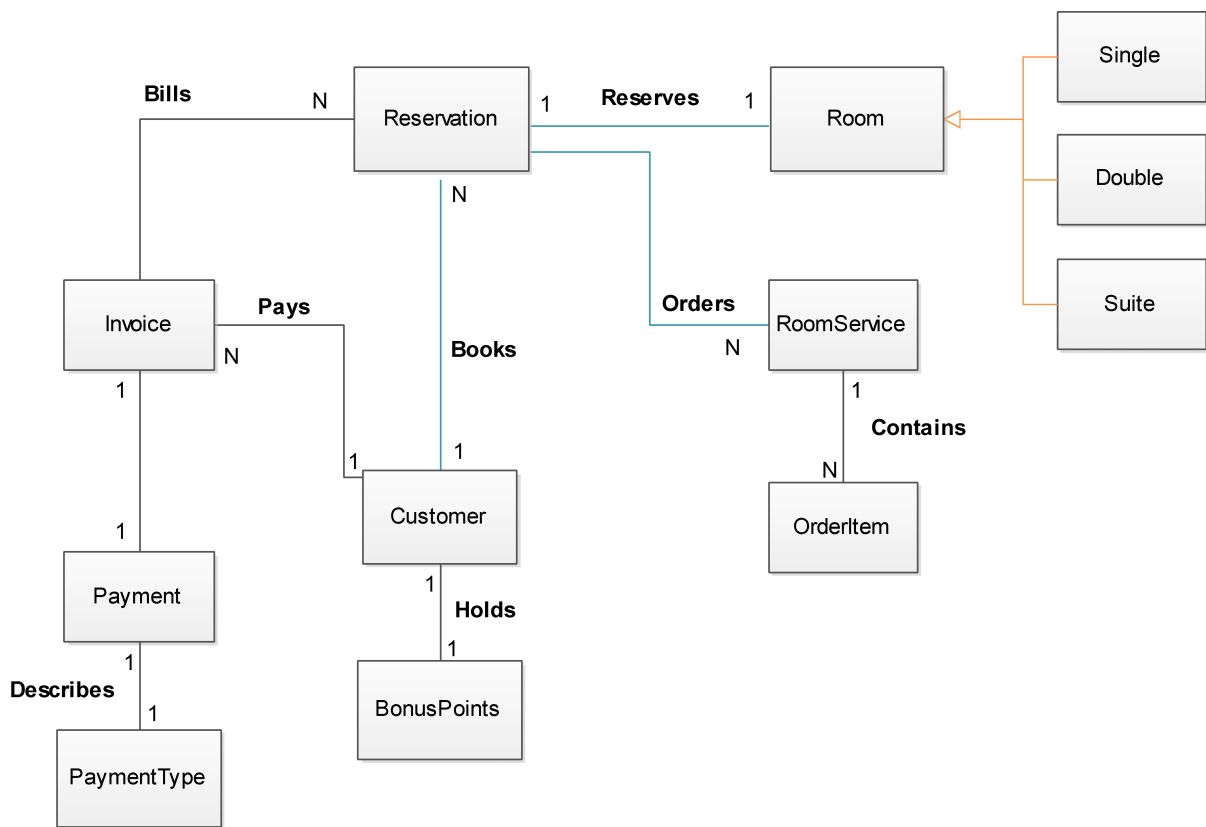


Figure 3: Domain Model

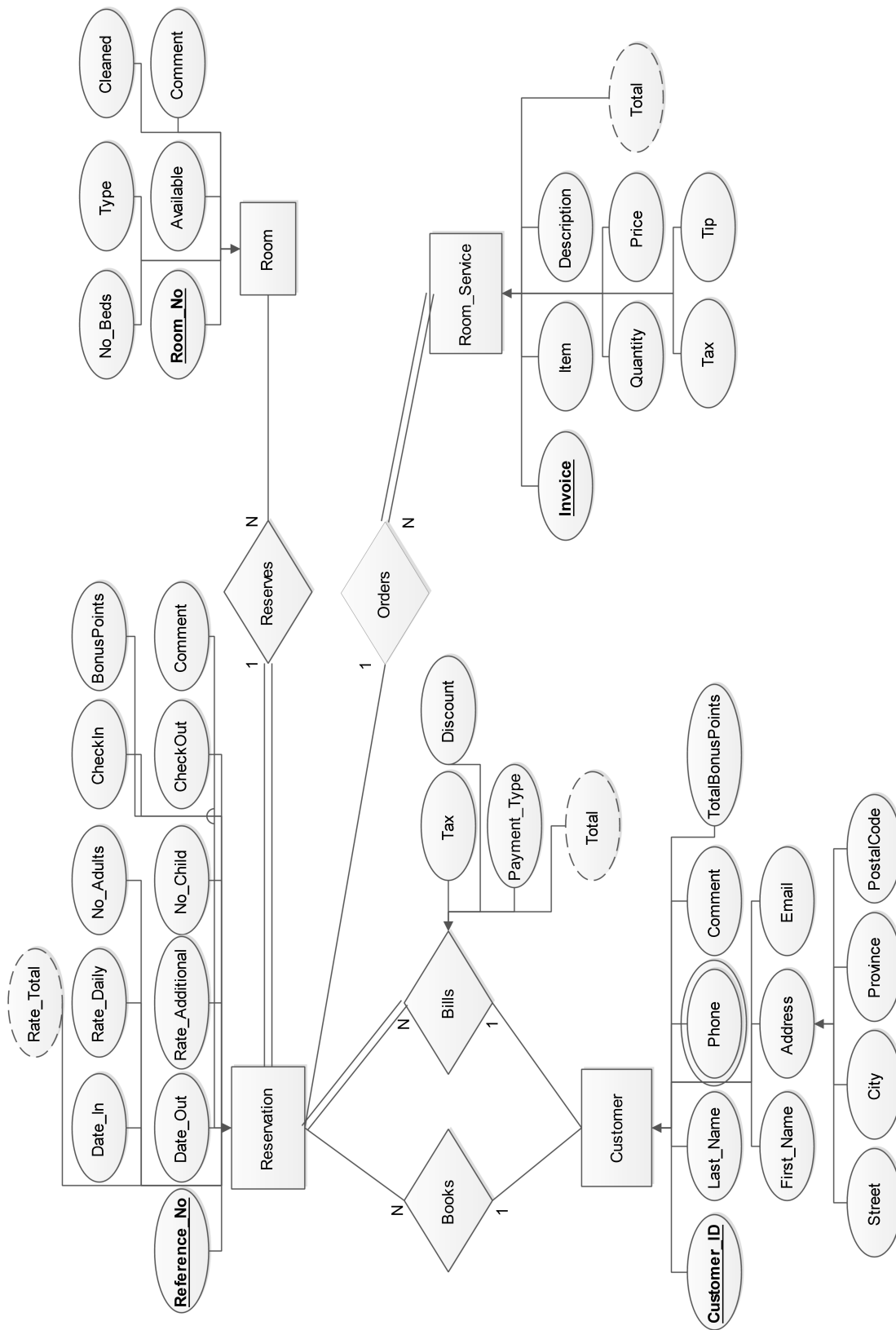


Figure 4: ER Diagram

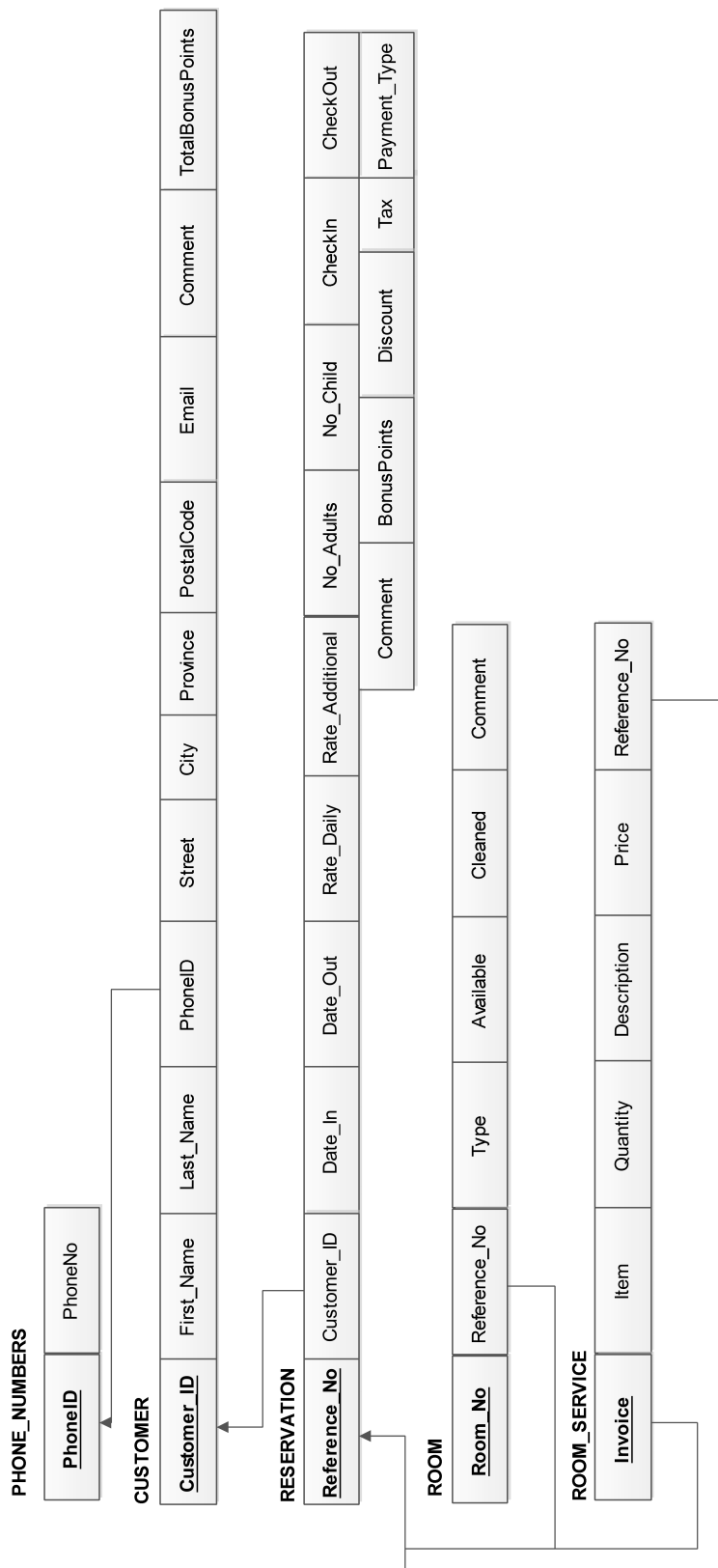
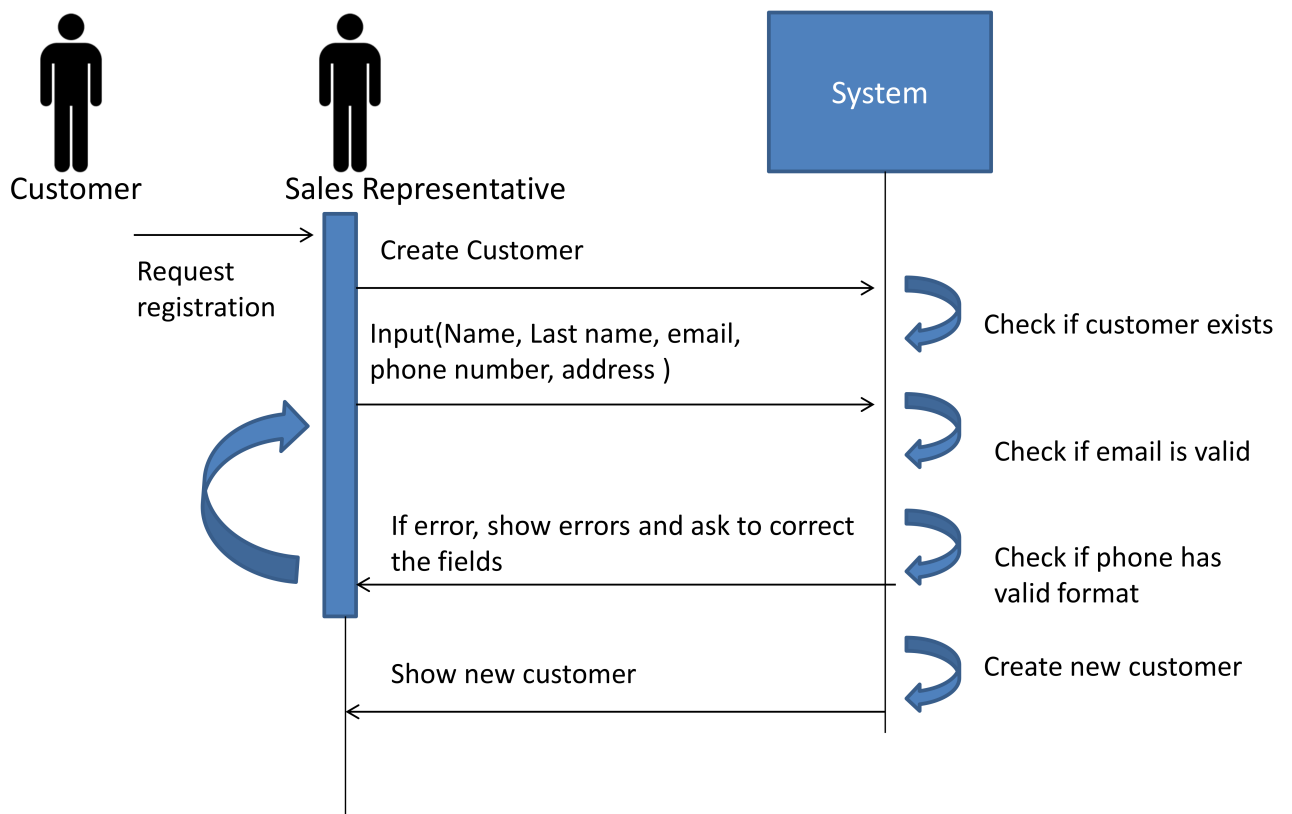


Figure 5: Schema Diagram



Note : Assume sales representative is logged in

Figure 6: Sequence Diagram