Iteration0

Brandon Koepke, Alberto Saave, Garrick Vdl, Julia, Tyler Gibb, Justin Milanovic

Abstract

This is the abstract...

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Release 1							
Iteration	**User Stories**	**Tasks**	**Priority**	**Difficulty/Estimate**	**Status**	**Owner**	**Description**
Iteration 1 Deadline (Feb26)	Development Setup (Bootstrap)	Setup Jenkins CI System	High	Hard	Done	Brandon	
		Setup Rails Environemnt	High	Medium		Everyone	Install Aptana, ruby, get familiar with Ruby
	Administrator is able to maintain users	Setup a baseline for user access control	High	Hard			Investigate Available Ruby User Management Plug-ins. Implement baseline.
		Implement user control for administrator	High	Medium			Given that the user is a valid user, when he/she enters user credentials in a login form, then an permissable webpage of the system appears.
		Admin is able to create and delete users	High	Medium			Given that the user is an administrator, when he/she is in the Users tab, then he/she will be able to add, and delete users
		Admin is able to view users	High	Medium			Given that the user is an adminstrator, when he/she is in teh Users tabe, then he/she will be able to view all users.
		Implement User Permission Assignment	High	Hard			Given that a user is a valid user and has "Admin" rights, when he/she selects another user, then that user will be assigned "Admin" rights
	Users are able to log into the system.	Implement user control for sales associate	High	Medium			Given that the user is a valid user, when he/she enters user credentials in a login form, then an permissable webpage of the system appears.
		Implement user control for sales manager	High	Medium			Given that the user is a valid user, when he/she enters user credentials in a login form, then an permissable webpage of the system appears.
		implement user control for elevated trusted sales associates	Low	Medium			Given that the user is a valid user, when he/she enters user credentials in a login form, then an permissable webpage of the system appears.
		implement user control for room service	Low	Medium			Given that the user is a valid user, when he/she enters user credentials in a login form, then an permissable webpage of the system appears.
		implement user control for room service manager	Low	Medium			Given that the user is a valid user, when he/she enters user credentials in a login form, then an permissable webpage of the system appears.
		implement user control for hotel manager	High	Medium			Given that the user is a valid user, when he/she enters user credentials in a login form, then an permissable webpage of the system appears.
		implement user control for anonymous costomers	Low	Medium			Given that the user is a valid user, when he/she enters user credentials in a login form, then an permissable webpage of the system appears.
		implement user control for registered customers	Medium	Medium			Given that the user is a valid user, when he/she enters user credentials in a login form, then an permissable webpage of the system appears.
	Sales associates are able to deal with customer information.	Sales associates can create a customer	High	Medium			Given that the user has logged in, when he/she enters customer's information and submits form, then a new customer is created.
		Sales associates can look up customers billing history	High	Medium			Given that the user is a sales representative, when he/she has found a customer, then the customer's billing history will appear.
		Sales associates can modify or delete customers information	High	Medium			Given that the user is a sales representative, when he/she has found a customer, then he/she will be able to edit the customer's information or delete the customer.
		Sales associates can view a list of customers	High	Medium			Given that the user is a sales representative, when he/she is in the customer webpage, then a list of customers will appear if any.
		Sales associate can search for specific customers	High	Medium			Given that the user is a sales representative, when he/she is in the customers webpage and entered customer's information (name, phone number, email, and customer-since date), then the customer will appear if found.
Iteration 2 (March 19)	Hotel Managers and Sales managers are able to handle rooms information.	Hotel managers and Sales Managers can create rooms	High	Medium			Given that the user is Hotel/Sales Manager in the rooms webpage and clicked on the New Room button, when the sales associate has entered the necessary room's information (room number, room type, description, price) and clicked on the save button, then a new room is created.
		Hotel Managers and Sales Managers can modify, and remove rooms.	High	Medium			Given that the user is a Hotel/Sales Manager in the rooms webpage and clicked on the edit or delete button of given room, when the user either edits the room information or confirms the room deletion, then the changes are persisted.
		Hotel Managers and Sales Managers can create, modify and delete room types	Low	Easy			Given that the user is a Hotel/Sales Manager in the rooms main webpage, when he/she clicks on the Room Types menu, then the user should be able to add, edit, and remove room types.
	Managers Should be able to deal with associates	Hotel Managers And Sales managers can add or delete sales associates	High	Medium			Given that the user is a Hotel/sales manager, when he/she is in the Associates tab, then he/she will be able to add, and delete Associates
		Hotel Managers should be able to promote sales associates to sales managers	High	Medium			Given that the user is a Hotel manager, when he/she is in the Associates tab, then he/she can promote/demote an associate to a/from a sales manager
		Hotel Managers should be able to add and delete Sales Managers	High	Easy			Given that the user is a Hotel manager, when he/she is in the Associates tab, then he/she can add a amnd delete sales managers
	Sales associates are able to handle room bookings information.	Sales associates can view a list of rooms	High	Medium			Given that the user is sales representative, when he/she is in the Rooms tab, then all rooms will appear.
		Sales associates can book a room for a customer	High	Hard			Given that the user has logged in, when the sales associate has selected a customer and entered the booking information, then a new room reservation is created.
	Sales associates are able to handle room bookings information.	Sales associates can view room bookings.	High	Medium			Given that the user is a sales representative, when he/she clicks on the room bookings tab, then all the room bookings will appear
		Sales associates can cancel a room booking	High	Easy			Given that the user is a sales representive, when he/she has found a room booking, then she can cancel such booking.
		Sales associates can search bookings.	High	Medium			Given that the user is a sales representative and in the main bookings webpage, when he/she enters room information (check-in/check-out dates, room type and/or roomt number), then the room will appear if found.
		Sales representative is able to record customer's payments	High	Hard			Given that the user is a sales representative and in the Payments main webpage, when he/she enters the payment information for a specific room booking, then the payment is recorded as well as the customer's billing information
	System should be able to handle registered customers	New customers can register to the system	Medium	Medium			Given that the user is a new customer, when the customer has entered all his/her customer information, then the a new registered customer is added.
		Registered customers can update their profile information	Medium	Medium			Given that the user has logged in as a customer, when the customer has edited his/her profile and clicked on save changes, then customer's information will be persisted.
		Registered customers can book a room	Medium	Hard			Given that the user has logged in as a customer, when the customer has selected the necessary room booking information and submitted the information, then a new room booking will be created
		Registered customers can view his/her bookings	Medium	Medium			Given that the user has logged in as a customer, when the customer is in the My Room Bookings tab, then all his/her bookings will appear.
Iteration 3 (April 9)	System Should be able to handle Room Service associates	Room Service Associates can look up customers by room number	Medium	Medium			Given that the user is logged in as a room service associate, the user can click on a room currently being booked and view a customer
		Room Service Associate can add to and delete a room service bill	Medium	Medium			Given that a the user is logged in as a room service associate and is on a customers page, then the Room service associate may add bills or credits to a customers room service charges
	System Should be Able to Handle Room service Managers	Room Service Managers should be able to add and delete Room Service associates	Medium	Medium			Given that the user is logged in as a room service manager, the user can add or delete room service associate in the system
	System could be able to handle anonymous customers	Anonymous users are able to book rooms	Low	Medium			Given that the user is an anonymous customer in the room booking main webpage, the user can enter the necessary booking information, then a new room booking is created and the anonymous user receives the booking information in his/her email.
		Anonymous users can become registered customers	Low	Medium			Given that the user has performed a booking in the past, when the system finds a match with his/her email account, then the user can become a registered customer.
	Administrators are able to handle hotel information	Administrators can create, modify and delete Hotels	Low	Medium			Given that the user is an Administrator and in the hotel admin webpage, when the user enters hotel's info, modifies hotel's infor or deletes hotels, then the changes are persisted.
		Administrators are able to view hotels	Low	Easy			Given that the user is a Administrator, when the user is in the Hotels main webpage, then the listing of hotels should appear.
		Administrators are able to add rooms to hotels	Low	Medium			Given that the user is a Administrator, when the user is looking at a specific hotel, then the user should be able to assing rooms to that hotel.
	System must handle trouble tickets	Any customer can issue trouble tickets	Low	Medium			Given that the user is either anonymous or a registered one, when in the ticket main page, then the user shoudl be able to send ticket.
		Sales people should be able to resolver trouble tickets	Low	Medium			Given that the user is a sale people, when the user is in the tickets main webpage, then he/she will be able to update/delete the status of a ticket.

1. Key Development Technologies

The key development technologies include the integrated development environment, the continuous integration server, the testing framework, and the version control system.

Eclipse was chosen as the IDE due to the fact that it is both open source and cross-platform. Eclipse has also been promoted in previous courses, so the majority of the group is already familiar with it. Unfortunately Eclipse does not have out of the box support for Ruby, so the plugin Aptana is being used for Ruby support.

Jenkins is being used as the CI server, and is being hosted at http://seng403.ssh22.net/jenkins. Jenkins was chosen because it has an extremely large number of plugins and it is easy to extend. It also has support for many of the common version control systems including git. We also looked at CruiseControl.rb, but chose not to use it because it does not have a graphical reporting system.

Shoulda will be used as the unit testing framework. This is because it is an extension of the built in Ruby unit testing framework Test::Unit. Unlike RSpec which encourages Behaviour Driven Development, Shoulda uses Test Driven Development which the group is more familiar with.

Git is being used as the version control system, and Trac is being used as the web interface to git. The git repository can be checked out using:

```
git clone <username>@seng403.ssh22.net:/var/cache/git/hotelmanager
```

The trac repository can be accessed at the following url: http://seng403.ssh22.net/trac. We also tried Gitlab web interface, but it was missing timeline and roadmap functionality and its bug reporting functionality was poor.