Iteration0

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1. Vision Statement

Hotel Manager 4000 has a single goal: developing the customer base. HM4000 helps Hotels maintain a mounting database of customers and their preferences, in addition to performing essential management task, such as room management, bookings and generating detailed reports quickly and easily with minimal training. The overall strategy is to create apparent value for your clients by studying their prior behavior in order to fashion a list of their future desires. Providing an added-value incentive, tied directly to sales, increases purchases among customers. Hospitality management is about growing the relationships with your guests, so spend more time pleasing guests than learning software.

2. Release Plan

The main features that we intend to implement for iteration 1 of our system is a user based form of access control. Customer users (guests at a hotel) for instance will have two basic forms of access control, anonymous customers and registered customers. Registered customers and anonymous customers will both have the ability to book and unbook rooms; on the other hand, registered customers will simply have the privilege of not having to enter their information every time they wish to book a room where as unregistered customers must do this every time they book a room, also registered customers will have the privilege of being able to unbook rooms where as unregistered customers will have to go through a sales associate. For users employed in the hotel company there are various levels of privilege, administers will have full access to the system as they represent the corporate scheme of the business so they essentially can do everything that all other users can do with the added benefit of adding hotels. Other users types Include Hotel managers, Sales Managers, Room Service Managers, Sales Representatives and Room Service Associates. Customer information access for associates is also intended to be implemented for iteration 1, this includes features such as adding, deleting and modifying customers as well as the ability to create a list of customers in order for an associate to look them up. Most of the above features are concerned with a partial established user control access mechanism that will be used in the future iterations.

The main features intended for iteration 2 of our system include the ability to allow appropriate users to book or unbook rooms, these users include both types of customer users, sales representatives, sales managers, and hotel managers. In order for this feature to work the user types will also have the ability to look for available booking time slots and choose the time slot most appropriate for them. Associates with the proper privileges working for the company will also have the ability of looking up or adding customer information, to select a customer in order to make a booking on that customers behalf. Hotel managers and sales managers will also have the ability of adding and deleting rooms from the hotel booking list in the case of a hotel restructuration. Also for iteration 2 hotel managers and sales managers should be

able to deal with adding, deleting and modifying associates who report to them in the employee hierarchy.

The main features intended to be implemented in iteration 3 of our system include the management of customer room service charges and anonymous user access. Customer users will be able to look at their current set of charges, this includes booking prices and rooms service charges. Sales associate, sales managers and hotel managers will also be able to look at a customer's billing status and will also be able to add charges regarding room bookings. Managers will also have the added privilege of removing charges. The room service associates and room service managers will have only the privilege to see charges to the customers room service bills, and the rooms service managers and possibly trusted associates will have the added benefit of removing room service charges from a customer's bill. If possible we may also implement a customer ticket system, where a customer can submit a ticket for complaints, complement and/or suggestions to which certain associates can respond to. Another possible feature which may be included in this iteration is for the ability of administrators to add additional hotels to the system.

3. Requirements

The operating systems that the system will support are windows Vista, 7, 8, and Mac OS X. These operating systems were chosen since the majority of company's and household computers will already have one of these installed. Making our system readily available to the vast majority of potential clients.

The Hotel Manager system is a web based application. It will support the main web browsers, Mozilla Firefox (18.0.1), Google Chrome (24.0.1312.57), Safari (5.1.1) and Internet Explorer (9.0). Hotel Manager will run on any of these versions, and continue to function with new updates. We chose a web based application because our software needs to be accessible by anyone who may want to book a room at a hotel using this system. A web application is the most effective way of accomplishing this as most computers already have at least one of the listed web browsers.

4. Critical Success Factors

The hotel manager system must be easy to use, extendible, and scalable. These are non functional qualities that will aid users to have a better experience with the system, and developers to be able to easily extend, improve, adapt, and add features to the system without breaking its main functionality. We will also like to make the webpage scalable so that the hotel can continue to serve their users better at each stage of their growing process as a company. By allowing the hotel management website to be able to grow together with the company, we are also allowing the hotel to take care of their old and new customers so that they can enjoy of all the amenities and services that the hotel offers in the present and in the future.

The hotel manager website must be easy to use for all the subjects that are going to use this service. This will initially include both staff and the hotel customers. Although it may be necessary to have some basic training to place orders, print records, and to perform other admin activities, we will want to make this as intuitive as possible. This website will certainly need to improve the effectiveness of the staff involved in performing these operations. Similarly, we want to make our customers to be able to find and book a room easy and fast. This will be achieved by focusing early on users and tasks. We will take into consideration and value the experience of the staff and customers with similar systems, and we will improve it upon that.

Besides making the website easy to use, we believe that in order to be successful we need to support extensibility of the system. This needs to be done because we are going to be adding many features on each iteration of the project, and we need to make sure that none of those features restrict the use of other possible features that we will want to implement at some point. One of the most important features that we will need to implement in the future is to allow an anonymous user to browse the contents of our webpage, so that they don?t have the necessity to provide us with sensitive information if they are just potential customers looking for alternatives. This should be done at some point because we acknowledge that some people don?t like the idea of registering for every single thing that they have to do on the internet. Therefore, extensibility is important because although we have considered these cases, we may not have time to implement them, but that doesn?t mean that we will compromise the software so that it is forever static.

5. 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.

Should a 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, Should 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.

6. Appendix

Release 1

Iteration	User Stories	Tasks	Priority	Difficulty/Estimate		Owner	Description
	Development Setup		High	Hard	Done	Brandon	
	(Bootstrap)	Setup Rails Environemnt Setup a baseline for user access	High	Medium	 	Everyone	Install Aptana, ruby, get familiar with Ruby
		control	High	Hard			Investigate Available Ruby User Management Plug-ins. Implement baseline.
		Implement user control for	10-6	Mar efficient	1		Given that the user is a valid user, when he/she enters user credentials in a login form, then an permissable
	Administrator is able	administrator	High	Medium			webpage of the system appears.
	Administrator is able to maintain users	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
		Implement user control for sales	riigii	naiu			Given that the user is a valid user, when he/she enters user credentials in a login form, then an permissable
		associate	High	Medium			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.
		manager	riigii	Wediam			
		implement user control for elevated					Given that the user is a valid user, when he/she enters user credentials in a login form, then an permissable
Iteration 1 Deadline	Users are able to log into the system.	trusted sales associates implement user control for room	Low	Medium			webpage of the system appears. Given that the user is a valid user, when he/she enters user credentials in a login form, then an permissable
(Feb26)		service	Low	Medium			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	LOW	Wedium			Given that the user is a valid user, when he/she enters user credentials in a login form, then an permissable
		manager	High	Medium			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	LOW	Wedidili			Given that the user is a valid user, when he/she enters user credentials in a login form, then an permissable
		registered customers	Medium	Medium			webpage of the system appears.
		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 are able to deal with customer information.	Sales associates can look up	•				Given that the user is a sales representative, when he/she has found a customer, then the customer's billing
		customers billing history Sales associates can modify or	High	Medium	1		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					Given that the user is a sales representative, when he/she is in the customer webpage, then a list of customers will
	anomator.	customers	High	Medium			appear if any.
		Sales associate can search for		1			Given that the user is a sales representative, when he/she is in the customers webpage and entered customer's
		specific customers	High	Medium			information (name, phone number, email, and customer-since date), then the customer will appear if found.
		Hotel managers and Sales					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
		Managers can create rooms	High	Medium			clicked on the save button, then a new room is created.
	Hotel Managers and Sales managers are	Hotel Managers and Sales					Given that the user is a Hotel/Sales Manager in the rooms webpage and clicked on the edit or delete button of
	able to handle rooms information.	Managers can modify, and remove rooms.	High	Medium			given room, when the user either edits the room information or confirms the room deletion, then the changes are persisted.
		Hotel Managers and Sales	riigii	Wediam			polisiou.
		Managers can create, modify and					Given that the user is a Hotel/Sales Manager in the rooms main webpage, when he/she clicks on the Room
		delete room types Hotel Managers And Sales	Low	Easy			Types menu, then the user should be able to add, edit, and remove room types.
		managers can add or delete sales					Given that the user is a Hotel/sales manager, when he/she is in the Associates tab, then he/she will be able to
	Managam Chauld ha	associates	High	Medium			add, and delete Associates
	Managers Should be able to deal with associates	Hotel Managers should be able to promote sales associates to sales					Given that the user is a Hotel manager, when he/she is in the Associates tab, then he/she can promote/demote an
		managers	High	Medium			associate to a/from a sales manager
		Hotel Managers should be able to					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 associates are able to handle room bookings information.		High	Easy			sales managers
Iteration 2 (March		Sales assoicates can view a list of					
19)		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 can view room	riigii	naiu			Given that the user is a sales representative, when he/she clicks on the room bookings tab, then all the room
		bookings.	High	Medium			bookings will appear
	Sales associates are able to handle room	Sales associates can cancel a	High	Easy			Given that the user is a sales representive, when he/she has found a room booking, then she can cancel such booking.
	bookings	room booking	- ngi-	Lucy			
	information.	Sales associates can search					Given that the user is a sales representative and in the main bookings webpage, when he/she enters room
		bookings.	High	Medium			information (check-in/check-out dates, room type and/or roomt number), then the room will appear if found. Given that the user is a sales representative and in the Payments main webpage, when he/she enters the
		Sales representative is able to					payment information for a specific room booking, then the payment is recorded as well as the customer's billing
		record customer's payments New customers can register to the	High	Hard	-		information Given that the user is a new customer, when the customer has entered all his/her customer information, then the
	System should be	system	Medium	Medium			a new registered customer is added.
		Registered customers can update					Given that the user has logged in as a customer, when the customer has edited his/her profile and clicked on save
	able to handle registered	their profile information Registered customers can book a	Medium	Medium	—		changes, then customer's information will be persisted. Given that the user has logged in as a customer, when the customer has selected the necessary room booking
	customers	room	Medium	Hard			information and submitted the information, then a new room booking will be created
		Registered customers can view					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	Medium	Medium			his/her bookings will appear.
	Suntam Chauld ha	Room Service Associates can look		1			Given that the user is logged in as a room service associate, the user can click on a room currently being booked
		up customers by room number	Medium	Medium			and view a customer
	System Should be able to handle Room	Room Service Associate can add		1			Given that a the user is logged in as a room service associate and is on a customers page, then the Room service
	Service associates		Medium	Medium			associate may add bills or credits to a customers room service charges
		Poom Sanica Managam should be					
		Room Service Managers should be able to add and delete Room					Given that the user is logged in as a room service manager, the user can add or delete room service associate in
		Service associates	Medium	Medium			the system
	System could be able to handle	Anonymous users are able to book					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
Iteration 3 (April 9)		rooms	Low	Medium		<u> </u>	booking information in his/her email.
,	anonymous customers	Anonymous users can become					Given that the user has performed a booking in the past, when the system finds a match with his/her email
	Administrators are able to handle hotel information	registered customers Administrators can create, modify	Low	Medium	—		account, then the user can become a registered customer. Given that the user is an Administrator and in the hotel admin webpage, when the user enters hotel's info,
		and delete Hotels	Low	Medium			modifies hotel's infor or deletes hotels, then the changes are persisted.
		Administrators are able to view					Given that the user is a Administrator, when the user is in the Hotels main webpage, then the listing of hotels
		hotels Administrators are able to add	Low	Easy	 		should appear. Given that the user is a Administrator, when the user is looking at a specific hotel, then the user should be able to
		rooms to hotels	Low	Medium			Given that the user is a Administrator, when the user is looking at a specific notel, then the user should be able to assing rooms to that hotel.
		Any customer can issue trouble					Given that the user is either anonymous or a registered one, when in the ticket main page, then the user should be
	System must bandle	tickets Sales people should be able to	Low	Medium	—		able to send ticket. Given that the user is a sale people, when the user is in the tickets main webpage, then he/she will be able to
	trouble tickets		Low	Medium			update/delete the status of a ticket.
		Any customer can issue trouble	Low	Medium			Given that the user is either anonymous or a registered one, when in the table to send ticket. Given that the user is a sale people, when the user is in the tickets main w

