CSC 190

Spring 2013

Team Sierra

Alex Chernyak Joubin Jabbari Kyle Matz Mike McParland Scott Livingston Serge Lysak

Software Requirement Specifications

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1. INTRODUCTION

This is the software system proposal document for the "Salon Scheduling System" project sponsored by Dragonfly Salon and Boutique. This project is being undertaken by the "Team Sierra" development team. The team is comprised of undergraduate students majoring in Computer Science at California State University, Sacramento. The team members are enrolled in a two-semester senior project course required of all undergraduate majors. Successful delivery of the desired software product will fulfill the senior project requirement for the student team members.

PROJECT SPONSOR

Contact Person's Name: Alayna and Lisa Sigurdson

Title: Owners and Hair Stylists

Organization Name: Dragonfly Salon and Boutique Contact information: Alayna.Sigurdson@gmail.com

DEVELOPMENT TEAM:

"Team Sierra":

- Alex Chernyak
- Joubin Jabbari
- Kyle Matz
- Mike McParland
- Scott Livingston
- Serge Lysak

Team Contact Info: TeamSierra@googlegroups.com

1.1 Purpose

The propose of this document is to clearly express and reiterate the sponsor needs. In this document, Team Sierra will provide a detail understanding of the requirements. By reading this document, the sponsor should have a clear understanding of what will the finish product will entail. This is a change for the sponsor to correct or confirm miscommunications regarding requirements.

1.2 Scope

In this document, Team Sierra will outline its understanding of what the sponsor's needs are. Based on these needs, use cases will be developed to cover the scope of the operation of the business. Diagrams will be developed to simulate such interactions. Resulting in a clear understanding on the behalf of the sponsor of how this system will be used.

1.3 Definitions, Acronyms and Abbreviations

This section will include the various definitions, acronyms, and abbreviations that we will use throughout this document. This section can be referenced throughout reading the document to further explain unclear words.

1.3.1 Definitions

Actor Anything that interfaces with the system

App Server A server that runs the web application.

Database Organized collection of data.

Entity An organized object describing related data in the database.

Executable Code The form of the software that can be ran on the computer.

Faculty Advisor The senior project teams have a CSc faculty member

assigned to them to advise the team on various aspects

throughout the course of the project.

Gigabyte A large unit of data storage.

Javadoc Javadoc is a documentation standard that generates HTML

files with descriptions of the code to be view using any web

browser.

MySQL A database program used to hold and organize data in a

relational form.

Project Charter Provides a detailed approach to the project.

Project Documentation Includes all of the following documents that will be created for

the software system over the course of the project.

Project Management Plan Provides detailed information on how the project will be

managed and resources will be obtained.

Sanitation Process of validating and removing invalid input data.

Software Design

Specification

Provides a high level view of the design and interfaces that

the project is based on.

Software Requirements

Specifications

Describe the behavior, scope and dependencies of the

system to be developed. Provide explanation on how it will be

used.

Source Code A collection of computer instructions written in human-

readable computer language.

Stylist Refers to both hair stylist and nail technician

System Test Specification Sequence of tests to be conducted to test the system.

System Test Report Results from the System Test Specification.

Use Case Describes things that an actor wants to do to the system.

User Manual A complete guide on how to install and operate the system.

1.3.2 Acronyms

CD Compact Disk

CSc Computer Science

ERD Entity Relation Diagram

GB Gigabyte

IDE Integrated Development Environment

SPMP Software Project Management Plan

SRS Software Requirement Specifications

UI User Interface

1.3.3 Abbreviations

App Application

Mgt Management

Mtg Meeting

Reg't Requirement

Spec Specification

1.4 References

No references were used.

1.5 Overview of Contents of Document

This section includes the overview of each main topic of this document. The overview explains what each section includes and any other details about the sections.

1.5.1 General Description

This section contains information that makes the specific requirements (found in the next section) easier to understand. The information provided describes the users and the features that the product is to provide. In addition, this section includes any constraints that will limit the project team's options in designing the software, and any assumptions or dependencies that might affect the requirements as specified in this document.

1.5.2 Specific Requirements

This section will contain all of the technical specifications of the software including but not limited to:

- Set of all features requested by the sponsor
 - Set of all functions required by said features.
- A measurable and verifiable explanation to each feature or its functionalities
- A Traceable overview of each feature and its evolution throughout the development process

1.5.3 Appendix A - Data Dictionary

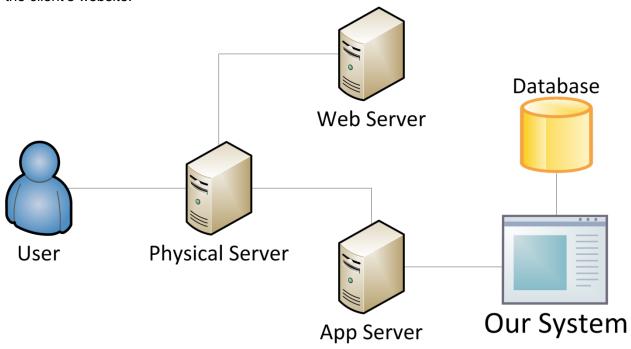
This is the Data Dictionary containing a list of all of our data entries and data tables.

2. General Description

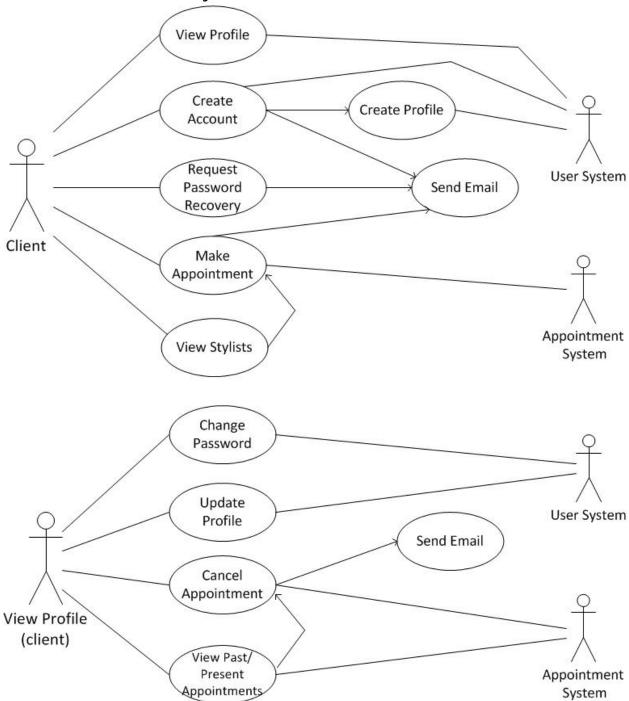
This section contains information that, hopefully, makes the specific requirements (found in the next section) easier to understand. The information provided describes the users and the features that the product is to provide. In addition, this section should include 1) any constraints that will limit the project team's options in designing the software, and 2) any assumptions or dependencies that might affect the requirements as specified in this document

2.1 Product Perspective

Our software is a web app written in Java. As such it will need an app server to facilitate its execution. Our system is independent of the salons website; however the app server that will execute our system is running on the same physical server as the website. While our system is completely independent of the sponsor's website, the website does link to our system. The following diagram is a visual representation of where our system lives in relation to the rest of the client's website:

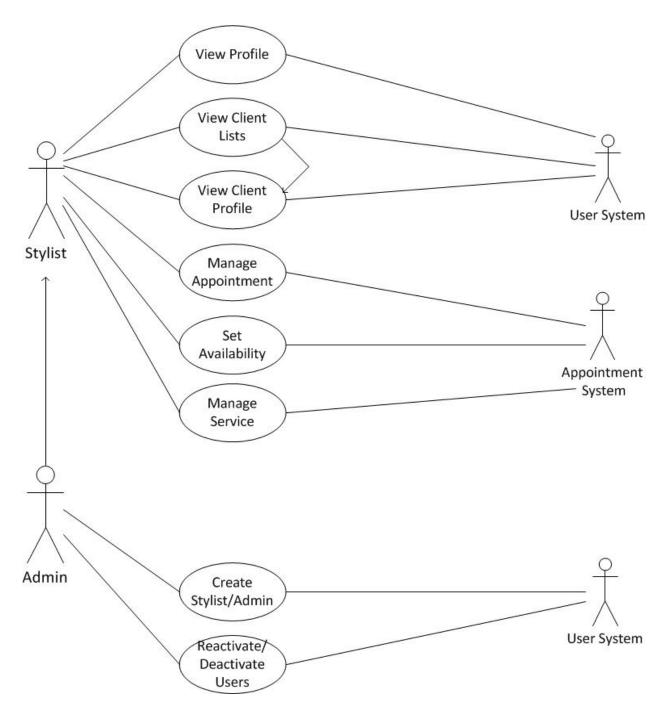


2.2 Use Case Models of System Features

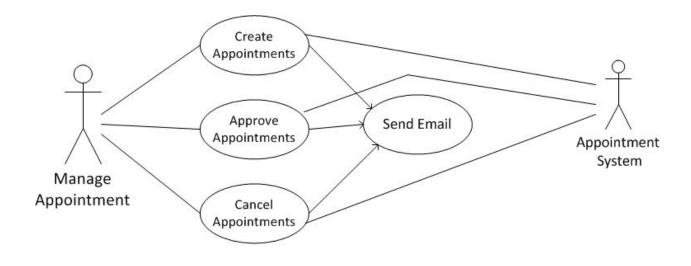


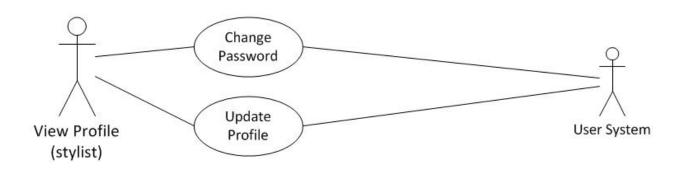
The above diagram is a high level Use Case Model for the Client actor of the system. This model shows the system features available to Clients and how those features intact with other aspects of the system that support those features.

Below the main diagram there is a further breakdown of the View Profile feature accessible by clients. This diagram is used to demonstrate how the sub-features of View Profile are used within the system. It is important to note that while this feature is similar to one of the features for Stylists and Admins, there are differences, which is why it is necessary to separate the two.



Similar to the Use Case Model for Clients, the above diagram is a high level Use Case Model for Stylist and Admin actors. This model is broken down into two sections by the type of actor, one for the Stylists and one for Admins. The model again shows the features provided by the system available to each type of actor. The Admin actor is capable of using all of the features available to stylists, as well as has access to the features noted in the model for managing the system.





These Use Case Models are a further breakdown of two of the features available to Stylists and Admins, Manage Appointment and View Profile. These breakdowns diagram related features that the high level model grouped together; this is done for both readability and completeness.

2.3 Characteristics

Users

- Client A client is a person who will be receiving service from our sponsor.
- Stylist A stylist is a service provider at our sponsor's salon.
- Admin An administrator user who will be in charge of maintaining and administrating users who will be using this software. An administrator will also be a stylist

Features: Client can

- Create an account
- Edit profile (Personal Information)
- Login at a later date
- Schedule an appointment
- Choose who to schedule an appointment with
- View previous appointments and appointment history
- Cancel Appointments

Features: Stylist can...

- Provide/Change availability
- Accept/Deny/Cancel appointments
- Tender an appointment
- Schedule an appointment on behalf of a client
- View previous appointments and appointment history of a given client (search)
- Cancel Appointments

Features: Admin can...

- Including all Features above
- Create and Delete users
- Set Operational Hours

2.4 General Constraints

Since our system is a web app, the system must have an app server running in order to run. We will also be storing password information which will require salting and hashing.

In order for the user to access the service, he/she will need an active internet connection and a modern browser that supports html5.

- Firefox (Mac, Windows)
- Safari (iOS, Mac, Windows)
- Chrome (iOS, Mac, Windows, Android)
- Opera (Mac, Windows)
- IE8+ (Windows)
- Dolphin (Android)

This system will rely on a Linux based app server. Based on the input from the sponsor, we have determined that the site needs to support no more than 100 live connections at a given time. In order to provide service given the above information, we have determined the following:

- Intel(R) Xeon(R) CPU E5-2670 @ 2.60GHz OR better
- Minimum 1 GB of memory
- 100 Megabit Connection
- 20 GB of Storage
- 1 TB of transfer rate per month

2.5 Assumptions and Dependencies

Throughout this documentation, we are making the following assumptions.

We are assuming that the customer will provide proper code segments so that we can associate our software into their website. The "how to" of this will not be documented until the development stage. This is due to the fact that the customer is currently in the process of creating said website.

We are assuming that the customer will utilize our system for 100% of all scheduling. If any other tools for scheduling are used, our system will not be aware of it and will allow for the booking of one time slot multiple times.

We are assuming that stylists will be 100% responsible for insuring correct input to the system when providing available times. This assumption is a result of the sponsors dynamic schedule which in real life

3. Specific Requirements

This section will contain all of the technical specifications of the software including but not limited to:

- Set of all features requested by the sponsor
 - Set of all functions required by said features.
- A measurable and verifiable explanation to each feature or its functionalities
- A Traceable overview of each feature and its evolution throughout the development process

3.1 Use Case Specifications

The following sections contain the use cases for our project. These layout the flow of the different features of our project. As the development phase continues and our clients request new features we may have to incorporate new use cases for these features.

3.1.1 Use Case 1

Use Case ID	UC-1	Use Case Name	Send Email
Created By	Mike McParland	Last Updated By	Mike McParland
Date Created	4/20/13	Date Last Updated	4/25/13
Actors			4/20/10
Description	Request Send Email System The system will give a target email, subject, and message for the system to create and send an email with. The system will then validate this information and send an email to the desired target. The email is typically a simple way to notify user about an action that the system is taking.		
Preconditions	1. One of the following h password recovery requestas created, approves, o 2. The system has a valible used to send the Ema 3. All users have entered has access too.	est, a make appointment r r cancels an appointment d target email, subject, ar il.	request, or a stylists and message that can
Post conditions	 Email is send to the in message. The email is archived date. 		•
Normal Course	message. 2. System validates subject and messa 3. System creates a	nail System gives email and email that has been passage fields are not null. an email with the giving in desired target with correct	sed to it and that the
Alternative Courses	None		
Exceptions	entered. 2. System will prompto a valid email. It email address inputa. The Stylist entered. The system tries original course. 3b. The Stylist will telegate.	nessage: Invalid email winessage: Invalid email winest to check that the user the will also give Stylist the control of the co	he email is being sent option to edit the ntended user. continues on the
Includes	None		
Priority	High		
Frequency of Use	Used each time a passwork created, an appointment cancel, or create new appleast twenty times per we	is requested, and when soointments. It can be exp	tylists approve,
DB Requirements	Users		
Special	1. The system has corre	ctly set up and configured	d to send emails from
Requirements	the specified email ac		
Assumptions	1. The email accounts at		system are valid.
Notes and Issues	None		

3.1.2 Use Case 2

Use Case ID	UC-2	Use Case Name	View Profile		
Created By	Mike McParland	Last Updated By	Mike McParland		
Date Created	4/20/13 Date Last Updated 4/25/13				
Actors	Client				
Description	The Client selects to view their profile. The system loads the page that displays the current user's page. From this page the Client has several different options. On this page the client will be able to see the personal information they have enter into the system. This may include their name, email, hair color, hair style, hair length, notes, and pictures of their hair. This page also displays all the appointments that the client has scheduled for the future.				
Preconditions	 Client has created an Client is logged into th 	e system.			
Post conditions	1. System displays the p	age of the current client's	s profile.		
Normal Course	2.0 Request to View Profile 1. Client selects to view their profile. 2. System displays the page of the client's profile. (Alternative courses 2.1, 2.2, 2.3, 2.4)				
Alternative	2.1 Request to Change	Password from View P	rofile (branch after		
Courses	 Step 2) Client selects to change their password. System displays the change password page. Request to Update Profile from View Profile (branch after step 2) 				
	 Client selects to update their profile. System displays the update profile page. Request to Cancel Appointment from View Profile (branch after step 2) 				
	Client selects to cancel a future appointment from their profile.				
	System displays the cancel appointment page.				
	2.4 Request to View all Appointment from View Profile				
	(branch after step 2)				
	 Client selects to view all appointments (past and future) from their profile. 				
		he page showing all the o			
Exceptions	yet would you like 2a. Client selects to c 3a. System displays t 2b. Client chooses no	essage saying: You have e to?	not created a profile ofile.		
Includes	UC-7 Change Password, Appointment, UC-10 View	UC-8 Update Profile, UC	-9 Cancel		
Priority	High				
Frequency of Use	Clients will use this page whenever they want to view their profile, change their password, update profile, cancel appointments, or view their past and present appointments. Therefore they will use this several times each login.				
DB Requirements	users – userTypes, users stylistsXAppointmentType stylistsXAppointmentType	es, stylistsXAppointment	Гуреs – users,		
Special	None				

Requirements	
Assumptions	None
Notes and Issues	

3.1.3 Use Case 3

Use Case ID	UC-3	Use Case Name	Create Account
Created By	Mike McParland	Last Updated By	
Date Created	4/20/13 Date Last Updated 4/25/13		
Actors	Client		
Description	A new client has selected to create an account on the website. The System will display the page for creating an account and take in all the necessary inputs from the client. It will then validate all the inputs the client has entered and either creates the account sending a verification email that will activate the account and take the user to the create profile page or it will request the client enter valid information in the all the required fields.		
Preconditions	 Client does not alread or email. Client is on the websit 		
Post conditions	 System creates the clithe create profile page The clients account is 		
Normal Course	 System displays the street of the following: It is a street of the following: It is a	ink from the email that wil account on the system. te the clients account and e.	ount. The required fields and Email. d and uses that r Database. ew accounts email. Il verify their email
Alternative Courses	them to please ent 2. Client enters a ne 3. System validates information to crea 4. System will use So 5. Client will click a li and activate their a	treate account page againg ter a new valid email add we valid email. The information entered ate a new user in the Use end Email to verify the near that will account on the system. The the clients account and the the clients account and the the clients account and the system.	n for the client asking ress. d and uses that r Database. ew accounts email. Il verify their email
Exceptions	fields mark. 2. Client enters all the are the following: It is a substantial	with invalid inputs (at create account page againg required information. The First Names, Last Name, all the information entered at a new user in the Use and Email to verify the new treate at the end Email to verify the new treate at the end Email to verify the new treate at the end Email to verify the new treate at the end Email to verify the new treate at the end Email to verify the new treater at the end Email to verify the end Ema	n with the invalid The required fields Email. d and uses that r Database.

	Client will click the link from the email that will verify their email and activate their account on the system.
	 System will activate the clients account and take the client to the create profile page.
Includes	UC-1 Send Email, UC-11 Create Profile
Priority	Low
Frequency of Use	When a client wants to create their account for the first time they must
	use this. Therefore each client will use this exactly once.
DB Requirements	users - userTypes
Special	None
Requirements	
Assumptions	None
Notes and Issues	

3.1.4 Use Case 4

Use Case ID	UC-4	Use Case Name	Request Password Recovery
Created By	Mike McParland	Last Updated By	
Date Created	4/20/13	Date Last Updated	4/25/13
Actors	Client	•	-
Description	The client wishes to record. it. The system will promposite system will then use Sent password that they can upassword.	ot the user to enter their e d Email to email the clien	email and name. The at a new temporary
Preconditions	 The client has a valid The email account on to it. 	the account is valid and	the client has access
Post conditions	 The client will be given with and create a new New password is store 	desired password.	
Normal Course	 System prompts the street of th	ed Recovery ecover their password. he client for their name a name and email and sys d Email to Client that has been tied their account. ew password to login the ew desirable password us	stem validates inputs. a new temporary system.
Alternative Courses	None		
Exceptions	the invalid fields m 2. Client enters their 3. System uses Send password that has 4. Client uses the ne 5. Client selects a ne Password.	he request password receivark. name and email and system of the control of the c	overy page again with stem validates inputs. a new temporary system.
Includes	UC-1 Send Email, UC-7	Change Password	
Priority	Low		
Frequency of Use	Clients will use this once password.	or twice a year when the	y forget their
DB Requirements	users - userTypes		
Special Requirements	None		
Assumptions	None		
Notes and Issues	None		

3.1.5 Use Case 5

Use Case ID	UC-5	Use Case Name	Make Appointment
Created By	Mike McParland	Last Updated By	Make Appointment
Date Created	4/20/13	Date Last Updated	4/25/13
Actors	Client	Date Last Opuated	4/20/10
Description	A Client will be able to select the date of the desired appointment and		
Description	the system will then displ		
	are open on the specified	•	• ,
	appointment, stylist, and		
	system will then create a		
	the stylist. The system w		
	informing them of the appointment pending approval.		
Preconditions	1) Client is logged into sy		
Post conditions	A pending appointment		
	,	approved by the stylists.	11
Normal Course	5.0 Initiate Appointmen		
		day, time, stylist, notes, a	and the services of
	their appointment.		
	System validates	the inputs.	
		pending appointment in t	he appointment
	database that mus		
	_	d Email to notify the stylis	st they have a new
	pending appointment	ent.	
Alternative	None		
Courses			
Exceptions	5.0.E.1 Initiate Appoint 2)	ment Request with inva	lid inputs (at Step
	2)	he Initiate Appointment R	
	 System displays the invalid fields in high Client selects the 	he Initiate Appointment R hlighted. day, time, stylist, notes, a	equest page with the
	 System displays the invalid fields in high invalid selects the their appointment. 	he Initiate Appointment R hlighted. day, time, stylist, notes, a	equest page with the
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	 System displays the invalid fields in high invalid fields in high invalid fields in high invalid fields in high invalid fields invalid fields. System validates invalidates invalidates	he Initiate Appointment R ihlighted. day, time, stylist, notes, a the inputs. pending appointment in t	request page with the and the services of
	 System displays the invalid fields in high invalid fields invalid fields. System validates invalidates in database that must be invalid fields. 	he Initiate Appointment R hlighted. day, time, stylist, notes, a the inputs. pending appointment in t st be verified.	equest page with the and the services of the appointment
	1. System displays the invalid fields in hig 2. Client selects the their appointment. 3. System validates 4. System creates a database that mus 5. System uses Seneral contents and the system creates a database that mus 5.	he Initiate Appointment R hlighted. day, time, stylist, notes, a the inputs. pending appointment in t st be verified. d Email to notify the stylis	equest page with the and the services of the appointment
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Exceptions	1. System displays the invalid fields in high 2. Client selects the their appointment. 3. System validates 4. System creates a database that must 5. System uses Send pending appointment. UC-1 Send Email	he Initiate Appointment R hlighted. day, time, stylist, notes, a the inputs. pending appointment in t st be verified. d Email to notify the stylis ent.	equest page with the and the services of the appointment at they have a new
Includes Priority	1. System displays the invalid fields in high 2. Client selects the their appointment. 3. System validates 4. System creates a database that must 5. System uses Send pending appointment UC-1 Send Email High	he Initiate Appointment Ruhlighted. day, time, stylist, notes, athe inputs. pending appointment in to be verified. d Email to notify the stylistent.	equest page with the and the services of the appointment at they have a new an appointment
Includes Priority	1. System displays the invalid fields in high 2. Client selects the their appointment. 3. System validates 4. System creates a database that must 5. System uses Send pending appointment UC-1 Send Email High Clients will use this every which ranged from once a users – appointments,	he Initiate Appointment Richlighted. day, time, stylist, notes, at the inputs. pending appointment in the beverified. d Email to notify the stylistent. Time they want to make a month to once every sepointments – stylistsXAp	equest page with the and the services of the appointment at they have a new an appointment everal months.
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Includes Priority Frequency of Use DB Requirements	1. System displays the invalid fields in high 2. Client selects the their appointment. 3. System validates 4. System creates a database that must 5. System uses Send pending appointment UC-1 Send Email High Clients will use this every which ranged from once a users – appointments – userNote users, stylistsXAppointments – stylistsXAppointmen	he Initiate Appointment Rahlighted. day, time, stylist, notes, athe inputs. pending appointment in to be verified. d Email to notify the stylistent. time they want to make a month to once every sepointments — stylistsXAppes, userNotes — users, stylents - appointmentTypes,	equest page with the and the services of the appointment at they have a new an appointment everal months. pointments, distsXAppointments -
Includes Priority Frequency of Use DB Requirements Special Requirements	1. System displays the invalid fields in high 2. Client selects the their appointment. 3. System validates 4. System creates a database that must 5. System uses Send pending appointment UC-1 Send Email High Clients will use this every which ranged from once a users – appointments, appointments – userNote users, stylistsXAppointments – stylistsXAppointments – stylistsSchedules.	he Initiate Appointment Rahlighted. day, time, stylist, notes, athe inputs. pending appointment in to be verified. d Email to notify the stylistent. time they want to make a month to once every sepointments — stylistsXAppes, userNotes — users, stylents - appointmentTypes,	equest page with the and the services of the appointment at they have a new an appointment everal months. pointments, distsXAppointments -
Includes Priority Frequency of Use DB Requirements	1. System displays the invalid fields in high 2. Client selects the their appointment. 3. System validates 4. System creates a database that must 5. System uses Send pending appointment UC-1 Send Email High Clients will use this every which ranged from once a users – appointments – userNote users, stylistsXAppointments – stylistsXAppointments – stylistsSchedules.	he Initiate Appointment Rahlighted. day, time, stylist, notes, athe inputs. pending appointment in to be verified. d Email to notify the stylistent. time they want to make a month to once every sepointments — stylistsXAppes, userNotes — users, stylents - appointmentTypes,	equest page with the and the services of the appointment at they have a new an appointment everal months. pointments, distsXAppointments -

3.1.6 Use Case 6

Use Case ID	UC-6	Use Case Name	View Stylist
Created By	Mike McParland	Last Updated By	
Date Created	4/20/13	Date Last Updated	4/25/13
Actors	Client		
Description	Clients can select from the Upon selecting one of the technician's profile page of client will be able to see the picture of the stylist or technician is available on the prosee the available days and the control of the stylist or the prosee the available days and the control of the stylist of the control of the stylist of the control	ese the system will display for the client to view. On he resume, experience, to chnician work. The name for of to go also. The client and times that the stylist is	y that stylist's or the profile page the echniques, and , email, service cost it will also be able to available and can
Preconditions	Initiate an Appointment R		
Post conditions	 Client is logged into sy System will show the 		account.
Normal Course	6.0 View Stylist	chefit the Stylist.	
Tromar essares	Client selects a has site.	air stylist or nail techniciar at client the stylist or techi e 6.1)	
Alternative	6.1 View Stylist with Ini	itiaté Appointment Requ	uest (branch after 2)
Courses	technician. 2. System uses Initia	ate, time, and service for the Appointment Request the stylist or technicians est is completed.	with the given inputs.
Exceptions	None (Initiate Appointment	nt Request validates the i	nputs)
Includes	UC-5 Initiate Appoint Rec	quest	
Priority	Medium-High		
Frequency of Use	Clients may use this option other routes to scheduling every couple appointment	g appointments. There it	
Frequency of Use DB Requirements	Clients may use this option other routes to scheduling	g appointments. There it ts. es – users, stylistsXAppotsXAppointmentTypes – s	will be used once bintmentTypes –
DB Requirements Special	Clients may use this option other routes to scheduling every couple appointment stylists XAppointment Types appointment Types, stylists	g appointments. There it ts. es – users, stylistsXAppotsXAppointmentTypes – s	will be used once bintmentTypes –
DB Requirements Special Requirements	Clients may use this option other routes to scheduling every couple appointment stylists XAppointment Types appointment Types, stylists XAppointment Types None	g appointments. There it ts. es – users, stylistsXAppotsXAppointmentTypes – s	will be used once bintmentTypes –
DB Requirements Special	Clients may use this option other routes to scheduling every couple appointment stylists XAppointment Types appointment Types, stylists XAppointment Types	g appointments. There it ts. es – users, stylistsXAppo tsXAppointmentTypes – s es - stylistsDayOffs	will be used once pintmentTypes – stylistsSchedules,

3.1.7 Use Case 7

Use Case ID	UC-7	Use Case Name	Change Password
Created By	Mike McParland	Last Updated By	
Date Created	4/20/13	Date Last Updated	4/25/13
Actors	Client		
Description	The client selects to change their account password from view profile. This will let them client change the password of their account by entering their old password as well as entering and then re-entering their new password. The system will then update their account to use the new password for logins.		
Preconditions	1) Client is logged into th2) Client is on the view p		
Post conditions	New password is store	ed in the User Database	replacing the old one.
Normal Course	page. 2. System shows the 3. Clients enter their password twice. 4. System validates 5. System changes t	hange their password fro e client the change passw current password once a the inputs of the client. the client's password in the e client to their profile page	vord page. and the new desired ne User Database.
Alternative	None		
Courses			
Exceptions	completely reenter last attempt. 2. Clients enter their password twice. 3. System validates 4. System changes t	he change password pag red. It will also display th current password once a the inputs of the client. the client's password in the	e that must be e problem with the and the new desired ne User Database.
Includes	None		
Priority	Low		
Frequency of Use	A client may use this onc	e or twice a year to chan	ge their password.
DB Requirements	users - userTypes		
Special	None		
Requirements			
Assumptions	None		
Notes and Issues	None		

3.1.8 Use Case 8

Use Case ID	UC-8	Use Case Name	Update Profile	
Created By	Mike McParland	Last Updated By	орожи том	
Date Created	4/20/13	Date Last Updated	4/25/13	
Actors	Client			
Description	The client views their profile and selects to update the information. The			
	system will then allow them to edit any of the fields on the profile page.			
	These fields include name			
	pictures of their hair, and			
	new updates are valid and	d make the changes or re	evert back the old	
	changes for invalid fields.			
Preconditions	1) Client is logged into th			
	2) Client is on the view p			
Post conditions	 Updated profile inform 	ation is stored in the Use	er Database.	
Normal Course	8.0 Update Profile			
		y wish to make changes		
		client their current profile	e allowing them to	
	edit the fields.	2.4)		
	(alternative course		1. (
		nformation they want to u	pdate.	
	,	the inputs of the client.	tion in the Llear	
	System changes the clients profile information in the User Database.			
	6. System returns the client to their profile page.			
Alternative	8.1 Update Profile Cancel (branch after step 2)			
Courses	<u> </u>	eturn to the view profile pa		
		e client to their profile pag	•	
Exceptions	8.0.E.1 Úpdate Profile v			
	System displays the update profile page with the invalid inputs			
	highlighted. Howe	ver it does make the cha	nges to the valid	
	inputs in the datab			
		lid input for the invalid fie	elds.	
		the inputs of the client.		
		the clients profile informa	ition in the User	
	Database.			
		ne client to their profile pa	•	
		eturn to the view profile p	•	
Includes	None	e client to their profile pa	ige.	
Priority	Low			
Frequency of Use	After initially setting up the	a profile the client may w	ant to undate their	
Troquonoy or Ose	profile from time to time b			
DB Requirements	users – userTypes, users		m miloo a your.	
Special	None None	4301110100		
Requirements				
•	None			
Assumptions	INOHE			
0 1:	None None			

3.1.9 Use Case 9

Use Case ID	UC-9	Use Case Name	Cancel	
Croated By	Mike McParland	Last Updated By	Appointment	
Created By Date Created	4/20/13	Date Last Updated	4/25/13	
		Date Last Opdated	4/25/13	
Actors		Client		
Description		Clients can cancel appointments that they have made for the future with proper notice. They will be able to select which appointment the		
	want to cancel and then of			
	then notify the Stylist via and remove the appointm			
		lent from the Appointmen	II Dalabase.	
Preconditions	1) Client is logged in.			
	2) Client has appointmen		re.	
	3) Client is on the view p			
Post conditions	1) System removes the s		n the database.	
Normal Course	9.0 Cancel Appointmen			
		ey wish to make cancel a	specified	
	appointment.			
	2. System shows a confirm message to the client.			
	(alternative course 9.1)			
	3. Clients confirm the cancelation.			
	4. System notifies the stylist via Send Email of the cancelation.5. System sets the canceled flag for the corresponding record in			
	_	•	sponding record in	
Altamatica	appointments table		-(0)	
Alternative	9.1 Cancel Appointmen			
Courses		e do not wish to cancel th	• •	
Eventions		confirms message to the	client	
Exceptions	None UC-1 Send Email			
Includes				
Priority	Low			
Frequency of Use	Clients may cancel one o	r two appointments a yea	ar.	
DB Requirements	users – appointments			
Special	None			
Requirements	Nana			
Assumptions	None			
Notes and Issues	None			

3.1.10 Use Case 10

Use Case ID	UC-10	Use Case Name	View Past/Present Appointment	
Created By	Mike McParland	Last Updated By	/ пропинени	
Date Created	4/20/13	Date Last Updated	4/25/13	
Actors	Client	•		
Description	Client can view their futur	re and past appointment	s. The system will	
·	show a page containing t			
	will be information on each	ch appointment like the ti	me, notes, and date.	
	The clients can then sele			
Preconditions	Client has had at leas		past or has an	
	appointment schedule			
	2) Client is logged into the			
	Client is on the view p			
Post conditions	System displays all th		appointments.	
Normal Course	10.0 View Past/Present	• •		
		ey wish to view past and		
		e client all their past and	future appointments.	
	(alternative course			
Alternative	10.1 View Past/Present			
Courses	 Clients selects they wish to cancel a future appointment. System sends the appointment the wish to cancel to the Cancel 			
		e appointment the wish to	cancel to the Cancel	
	Appointment.			
Exceptions	none (Cancel Appointme			
Includes	UC-9 Cancel Appointmen	nt		
Priority	Medium			
Frequency of Use	Clients will use this to vie		ppoints so it will get	
	used 5-10 times a year p			
DB Requirements	users – appointments, ap		•	
	stylistsXAppointments –			
•	appointmentTypes, appo	<u>intments – userNotes, us</u>	serNotes - users	
Special	None			
Requirements				
Assumptions		None		
Notes and Issues	None			

3.1.11 Use Case 11

Use Case ID	UC-11	Use Case Name	Create Profile
Created By	Mike McParland	Last Updated By	
Date Created	4/20/13	Date Last Updated	4/25/13
Actors	Client	<u> </u>	
Description	After creating an account this profile they can enter required name and email length, notes, and picture information so that the cli This information will be profile.	the following information already entered: hair coles of their hair. The syste ent and the stylist can vie	n in addition to the or, hair style, hair om will then save this
Preconditions	 Client has created and Client is logged into the 		
Post conditions	1) System puts new option		User Database.
Normal Course	 User enters in the their profile. System validates to the system makes character updated information. 	he create profile page for information they want the the inputs the fields the canges to the User Databan. ent to the last page they	ey want to have on lient has entered. ase with the client's
Alternative	None	ent to the last page they	were at.
Courses	None		
Exceptions	highlighted. Its sa from the last attem 2a. Client reenters th 2b. Client leaves prev 3. System validates to 4. System makes character	he create profile page wit ves the valid inputs and r npt. e invalid fields with valid viously invade fields blant the inputs of the client. anges to the User Databa	th the invalid inputs refills the valid inputs inputs. k. ase with the client's
Includes	None		
Priority	Low		
Frequency of Use	Each client will use this o	ne time.	
DB Requirements	users - userTypes, users		
Special	None	· · Ji · · ·	
Requirements			
Assumptions	None		

3.1.12 Use Case 12

Use Case ID	UC-12	Use Case Name	View Profile (Stylist)
Created By	Mike McParland	Last Updated By	
Date Created	4/20/13	Date Last Updated	4/25/13
Actors	Stylist		
Description	The stylist can view their the stylist that will have s	everal options. From this	page the stylist can
	update their profile and c their personal information their work.		
Preconditions	Stylist has created an Stylist is logged into the		ne information.
Post conditions	1. System displays the c		Э.
Normal Course	12.0 Request to View P		
	Stylist selects to v		
	System displays t	he page of the stylist's pr	ofile.
	(Alternative courses		
Alternative	12.1 Request to Chang	e Password from View	Profile (branch after
Courses	step 2)		
		hange their password.	
		he change password pag	
	12.2 Request to Update	Profile from View Prof	ile (branch after
	step 2)		
	Stylist selects to u		
		he update profile page.	
Exceptions	12.0.E.1 Request to Vie		
		essage saying: You have	not created a profile
	yet, would you like		
	2a. Stylist selects to		C1 -
		the page for creating a pr	offie.
		ot to create their profile.	ious page
Includes	UC-18 Password Change	Stylist back the their prev	nous page.
Priority	High	e, OC-19 Opdate Profile	
Frequency of Use		ivo timos o dov et a week	,
DB Requirements	Each stylist will use this f users – stylistsXAppointn		
DB Requirements	appointmentTypes	nents, stylists/Appointme	illo -
Special	None		
Requirements	INOTIE		
Assumptions	None		
Notes and Issues	None		
	INUILE		

3.1.13 Use Case 13

II 0 ID	110.40	11 O N	\ <i>i</i> ' \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Use Case ID	UC-13	Use Case Name	View Client List
Created By	Kyle Matz	Last Updated By	Kyle Matz
Date Created	4/20/13	Date Last Updated	4/25/13
Actors	Stylist		
Description	The Stylist can select to	view all their clients in the	system. This list is
	set up so that each client name is a link to that client's profile page.		
	The admin stylists will be		
	but normal stylists will only be able to view their own clients. They		
	stylists can select on a particulate client to see more information and		
	that clients profile page.		
Preconditions	1) The stylist has a valid		
	The stylist is logged in	nto their account.	
Post conditions	Displays a list of clients	S.	
Normal Course	13.0 View Client List		
	 From their profile p 	oage a Stylist or Admin w	ill select to view client
	list.		
		ys a page with a list of all	the past and present
	clients of the stylis		
	(alternative course		
Alternative	13.1 View Client's Profi	•	-
Courses		a client's entry in the list	
		ys the client's full profile p	
Exceptions	13.0.E.0 View List of As	sociated Clients When	None Exist (at step
	1)		
		ne message: "You do not	
	clients." This mess	sage is displayed where t	he list would usually
	be.		
Includes	UC-14 View Client Profile)	
Priority	Medium-High		
Frequency of Use	Due to the view client list	leading to the client's pro	ofile it will be used
	somewhat frequently.		
DB Requirements	users – userTypes, users		
	stylistsXAppointmentType	<u>es – appointments, appoi</u>	ntments - users
Special	None		
Requirements			
Assumptions	None		
Notes and Issues	None		

3.1.14 Use Case 14

Use Case ID	UC-14	Use Case Name	View Client Profile
Created By	Kyle Matz	Last Updated By	Mike McParland
Date Created	4/20/13	Date Last Updated	4/25/13
Actors	Stylist		
Description	The Stylist selects a clier	t whose profile they wish	to view. The profile
	will contain all of the pers		
	the system with an addition	onal client notes text area	a hidden from the
	clients view.		
Preconditions	1) The stylist is logged in		
5	2) The stylist is on the vie		
Post conditions	The system displays the street in the system displays the street in the system displays the street in the system displays	ne clients full profile page	of the selected
Normal Course	client. 14.0 View Client Profile		
Normal Course		ant list page the stylist will	Looloot a aliant to
	view their profile.	ent list page the stylist will	i Select a client to
		v the full profile for the cli	ient selected
	System will display the full profile for the client selected including an editable notes text area.		
	(alternative course		
Alternative	14.1 Change Hidden Cli	,	step 2)
Courses		in types in the client note	
	selects to saves th	ne changes.	
		ges the note area of the c	lients profile in the
	User Database.		
Exceptions	None (valid client ensure	d by client list)	
Includes	None		
Priority	High		
Frequency of Use	The client's profile page		
DD Di	and could be visited frequency	uently to view this informa	ation.
DB Requirements	users - userNotes		
Special	None		
Requirements Assumptions	None		
Notes and Issues	None		
110169 4110 199069	INOHE		

3.1.15 Use Case 15

Use Case ID	UC-15	Use Case Name	Manage	
			Appointments	
Created By	Mike McParland	Last Updated By		
Date Created	4/20/13	Date Last Updated	4/25/13	
Actors	Stylist			
Description	Stylists will be able to cre			
	appointments, and cance			
	list all the future appointn			
	past appointment will be			
	The stylists will also be a		ntments based off of	
Dragonditions	a time and date ranged e			
Preconditions Post conditions	Stylist must be logged System shows the style		nont nogog	
Normal Course	1) System shows the sty	<u> </u>	ieni pages.	
Normal Course	15.0 Manage Appointme		.00	
		ew the manage profile pa y the manage profile pag		
		ppointments with a bit of		
	the appointment n	• •	inionnation oddin do	
	(alternative course 1			
Alternative	15.0 Create Appointmen	nt from Manage Appoin	tments (branch	
Courses	after step 2)			
	Stylist will select to	o create a new appointm	ent from the manage	
	appointments pag	e.		
		y the Create Appointmen		
	15.1 Manage Pending Appointments from Manage Appointments			
	Stylist will select to manage pending appointments from the			
	manage appointm	. •		
		y the Manage Pending A		
		15.2 Cancel Appointment from Manage Appointments1. Stylist will select to cancel a future appointments from the		
	manage appointm		ments from the	
		y the Manage Pending A	nnointments nage	
Exceptions	15.0.E.1 Request to Ma			
LACOPTIONS	appointments	(at step 1)	nore naving an	
		y the Manage Appointme	ents page but will	
		list has no past or future		
	the appointments	•	1 1	
Includes	UC-20 Create Appointme	ents, UC-21 Managing Pe	ending Appointments,	
	UC-22 Cancel Appointme	ent		
Priority	High			
Frequency of Use	Anytime a stylist wants to	O 1.1	•	
	page. Therefore it will be			
DB Requirements	users – stylistsXAppointn			
	appointmentTypes, stylis		appointments,	
0	appointments – users, ap	pointments - userNotes		
Special	None			
Requirements	Nege			
Assumptions	None			
Notes and Issues	None			

3.1.16 Use Case 16

Use Case ID	UC-16	Use Case Name	Set Availability
Created By	Mike McParland	Last Updated By	
Date Created	4/20/13	Date Last Updated	4/25/13
Actors	Stylist	-	
Description	The stylist will be able to week. These hours will be generate the stylist's available their hours at will and the lifthe change in hours afforming the amessage informing the scheduled outside of their keep the appointment or	e stored by the system a ilability schedule. They s system will update and rects a future appointment the stylist that an appoint availability. They stylist	nd then used to tylist can change eflect these changes. t the system will pop ment is now can either select to
Preconditions	Stylist is logged in to a		<u> </u>
Post conditions	Stylist can view and each of the stylist can view and each of		V.
. oot oonditions	System will update the		
Normal Course	16.0 Set Availability 1. Stylist selects to v 2. System shows the (alternative course 3. Stylist enters the n 4. System validates the	iew or edit their availabilite stylists their current ava e 16.1) ew availability they want the new availability. The availability of the stylison the system.	ty. ilability. the system to use.
Alternative	16.1 Set Availability no		en 2)
Courses	to change it. 2. System shows the 16.2 Set Availability with 1. System displays nof availability conflex 2. The stylists select outside their availa 16.3 Set Availability with step 5) 1. System displays nof availability conflex 2. The stylists select the appointment is	nessage informing the stylicts with a future schedul to keep they appointmentability. h conflict and reschedul nessage informing the stylicts with a future schedul s they wish the cancel the sent to Cancel Appointmentals.	were at. step 5) /list that their change ed appointment. It even though it is le (branch after /list that their change ed appointment. e appointment and nent.
Exceptions	16.0.E.1 Set Availability 1. System will displating inputted fields for the control of the control of the current schedule o	y with invalid inputs (at y a message informing the decident of the availability are invalidated the stylists to enter validate the new availability. The availability of the stylists on the system.	step 4) ne stylist that their number of the stylist that their number of the styling that the styling the styling that the st
Includes	UC-22 Cancel Appointme	ents	
Priority	Medium	1 (1 1 11 11 11 11 11 11 11 11 11 11 11	1 6
Frequency of Use	Each stylist will use this to month.		·
DB Requirements	users – stylistsSchedules stylistsDayOffs	s, stylistsSchedules – day	s, users –
Special	None		

Requirements	
Assumptions	None
Notes and Issues	None

3.1.17 Use Case 17

Use Case ID	UC-17	Use Case Name	Manage Service
Created By	Mike McParland	Last Updated By	
Date Created	4/20/13	Date Last Updated	4/25/13
Actors	Stylist		
Description	Stylists can add, update, or removed the services they offer on the site. The system will display all the services and information with each service so that the stylists can edit, remove, or add a new service. There services will include a name, estimated cost, and estimated appointment duration.		
Preconditions	1) Stylist is logged in to a	an activated account.	
Post conditions	 System will display the update, edit, or remove o The system will make 	ne.	
Normal Course	System will displa (alternative cours)	o manage their services. y the manage service pag e 17.1, 17.2, 17.3) o edit, add, or remove an	
Alternative	17.1 Manage Service ad		
Courses	 Stylist will select to System will displa Stylist will input se System will valida System will add th 	o add a new service. y page to add new service ervice name, cost, and time te the inputs. he new service to the curr	e. neframe. ent stylist services.
	17.2 Manage Service editing service (branch after step 2)1. Stylist will select to edit an existing service.		
	System will display the service they wish to update.		
	 Stylist will edit the service name, cost, and timeframe if desired. System will validate the inputs. System will edit the service in the database. 		
	17.3 Manage Service removing service (branch after step 2)1. Stylist will select to remove a service.		
	2. System displays a confirm page with the service they wish to delete.3a. Stylist will select to confirm deletion.		
	4a. System will remo	ved the select service fro to cancel the removal. In the stylists to the manage	
Exceptions	inputted fields for to 2. System will promp 3. System validates 4. System adds the to 17.2.E.1 Update service 1. System will displa	y a message informing the availability are invalidated the stylists to enter validated new inputs for a servinew service for the stylist	ne stylist that their d inputs. ce. in the database. step 4) ne stylist that their

	 System will prompt the stylists to enter valid inputs. System validates the updated service information.
	System validates the apactod service information: System edits the service for the stylist in the database.
Includes	None
Priority	Low
Frequency of Use	Each stylist will use this once or twice a year to update their available services.
DB Requirements	users – stylistsXAppointmentTypes, stylistsXAppointmentTypes – appointmentTypes,
Special	None
Requirements	
Assumptions	None
Notes and Issues	None

3.1.18 Use Case 18

Use Case ID	UC-18	Use Case Name	Password Change
Created By	Mike McParland	Last Updated By	
Date Created	4/20/13	Date Last Updated	4/25/13
Actors	Stylist		
Description	The stylist selects to char		
	system will prompt the us		
	new desired password tw		
-	asks for a valid input or c		the user database.
Preconditions	Stylist is logged into the styling in the styl		
Post conditions	1) System will store new	password in the user dat	tabase replacing the
N IO	old one.	1	
Normal Course	18.0 Change Password		the mark the many
		hange their password fro	
		e stylists the change pass current password once a	
	password twice.	current password once a	and the new desired
		the inputs of the stylist.	
		the stylist's password in the	ne User Database
	,	e stylists to their profile p	
Alternative	None		3
Courses			
Exceptions	18.0.E.1 Change Passw		
		he change password pag	
	. ,	red. It will also display th	e problem with the
	last attempt.		
		current password once a	and the new desired
	password twice.	the line its of the estimat	
		the inputs of the stylist. :he stylist's password in tl	as Hear Database
		he stylist to their profile pa	
Includes	None	ic stylist to their profile po	ago.
Priority	Low		
Frequency of Use	Each stylist will use this feature maybe a couple times a year.		
DB Requirements	Users	- ,	· y
Special	None		
Requirements			
Assumptions	None		

3.1.19 Use Case 19

Created By Mike McParland Last Updated By Date Created 4/20/13 Date Last Updated 4/25/13	Use Case ID	UC-19	Use Case Name	Update Profile
Actors Description The stylist views their profile and selects to update the information on their profile page. The system will then allow them to edit any of the fields on the profile page. These fields include name, email, resume, qualifications, examples of past work, and additional notes. Preconditions 1. The stylist is logged into the system with valid account. 2. The stylist is on their profile page. Post conditions Normal Course 1. Updated profile information is stored in the User Database. 19.0 Update Profile 1. Stylists selects they wish to make changes to their profile. 2. System shows the stylist their current profile allowing them to edit the fields. (alternative course 19.1) 3. Stylists enter the information they want to update. 4. System validates the inputs of the stylist. 5. System changes the stylists profile information in the User Database. 6. System returns the stylists to their profile page. Alternative Courses 19.1 Update Profile Cancel (branch after step 2) 1. Stylist selects to return to the view profile page. 2. System returns the stylist to their profile page. 2. System returns the stylist to their profile page. 2. System displays update profile page with the invalid fields highlighted and the valid fields updated in the database. 2a. Stylist re-enters invalid inputs and submits changes again to system. 3a. System validates the inputs of the stylist. 4a. System changes the stylists profile information in the User Database. 5a. System returns the stylists to their profile page. 2b. Stylist decides not to re-enter the invalid fields and is happy with the changes. 3b. System returns to the stylist profile page. Includes None Priority Medium Prequency of Use Each stylist will use this every time they want to update their profiles information. Users - userNotes	Created By	Mike McParland	Last Updated By	
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DB Requirements users - userNotes			roly allo aloy main to ap	suate their promot
	DB Requirements			
Special None	Special	None		
Requirements				
Assumptions None		None		
	Notes and Issues	None		
MODE STOLEGIES I MODE	110169 0110 199069	INOLIG		

3.1.20 Use Case 20

Use Case ID	UC-20	Use Case Name	Create Appointment
Created By	Mike McParland	Last Updated By	Orcate Appointment
Date Created	4/20/13	Date Last Updated	4/25/13
		Date Last Opuated	4/23/13
Actors	Stylist	voote on oppointment for	o siyon oliont. The
Description	The stylist can select to or system will then send an is scheduled. This appoint stylist as they are the one to the future appointment	email notifying the client ntment does not need to be making it. Once subm	that the appointment be approved by the itted it will be added
Preconditions	Stylist is logged in an	·	Dase.
1 1000Hallions	2) Stylist is on the manage		
Post conditions	System uses Send Ma System creates an ap	ail to notify client of the ap	
Normal Course	20.0 Create Appointmen		
	 Stylist selects to decrease. System shows the selects to decrease. Stylist enter the clustime, and service selected. System validates selected. System makes the selected. System uses Sendappointment. 	reate an new appointment e create appointment pag ient name, appointment o	e. date, appointment pintment database. t of the new
Alternative	None	e stylist to the manage ap	spontinents page.
Courses	None		
Exceptions	fields highlighted. 2. Stylist re-enters in create appointmer 3. System validates 4. System makes the 5. System uses Sendappointment.	rate appointment page a	gain with the invalid sponses and submits pintment database. t of the new
Priority Frequency of Use	Medium Stylist will use this whene given client. Most of the appointments and therefore year.	time clients will request to	o make their own
DB Requirements	users – stylistsXAppointn appointmentTypes, stylis appointments – users, ap	tsXAppointmentTypes – a	
Special	None		
Requirements			
Assumptions	None		
	None		

3.1.21 Use Case 21

Use Case ID	UC-21	Use Case Name	Manage Pending		
One steed Du	Miles MaDayland	Loot Undeted D.	Appointment		
Created By	Mike McParland	Last Updated By	4/05/40		
Date Created	4/20/13	Date Last Updated	4/25/13		
Actors	Stylist				
Description	Stylists can view all their pending appointments on the system. The stylist can they view the appointment details and either approve the appointment or cancel the appointment for the client. The system will send an email the client to inform then whether or not the appointment				
	has been approved. If approved the system will set the pending appointment as an approved appointment.				
Preconditions	Stylist is logged into a valid account.				
	2) Stylist on the Manage Appointment page.				
Post conditions	System either approves or denies the pending appointment.				
	2) System email the client whether or not their appointment is				
	approves.				
	System will mark the appointment as approved or denied.				
Normal Course	21.0 Manage Pending Appointment				
		nanage pending appointr			
	 System shows the pending appointments page. (alternative course 21.1) 				
		appointment they wish to			
		before submitting the app			
		appointment as approve			
	System emails the client that their appointment is approved				
Alternative	21.1 Manage Pending A				
Courses	Stylist selects the appointment they wish to deny and any note				
	they want the system to include with the email informing the				
	client of the appointment denial.				
	2. System validates inputs				
		System marks the appointment as a cancelled appointment.			
Eventions	4. System uses Send Email to send the client the email.				
Exceptions	 21.1.E.1 Manage Pending Appointment Deny invalid note input (at Step 2) 1. System displays the invalid note the stylist entered and asked for a valid input for that field. 				
	Stylist re-enters valid inputs and submits deny appointment				
	again.				
		the inputs of the stylist.			
		appointment as a cance	elled appointment		
		d Email to send the clien			
Includes	UC-1 Send Email				
Priority	High				
Frequency of Use	Each Stylist will use this feature every appointment that a client				
. ,	schedules. This could be up to several times a week.				
DB Requirements	users – stylistsXAppointmentTypes, stylistsXAppointments –				
·	appointmentTypes, stylistsXAppointmentTypes – appointments,				
	appointments - users, ap		• •		
Special	None				
Requirements					
Assumptions	None				
Notes and Issues	None				

3.1.22 Use Case 22

Use Case ID UC-22 Use Case Name Cancel Appointment Created By Mike McParland Last Updated By Mike McParland Date Created 4/20/13 Date Last Updated 4/25/13 Stylist					
Created ByMike McParlandLast Updated ByMike McParlandDate Created4/20/13Date Last Updated4/25/13					
Date Created 4/20/13 Date Last Updated 4/25/13					
ACIOIS SIVIISI					
- · · · · · · · · · · · · · · · · · · ·					
Description A stylist can cancel any upcoming appointments. They will be able to					
select which appointment they want to cancel and then confirm the					
cancelation. The system will then notify the client via email that the					
cancelation has been made and remove the appointment from the					
Appointment Database. Preconditions 1. Stylist or Admin is logged into the system.					
2. Stylist or Admin has an appointment scheduled for the future.					
3. Stylist or Admin is on view profile page or manage appointments					
page. Post conditions 1. System removes the appointment from the database.					
-7					
2. System emails the client Normal Course 22.0 Cancel Appointment					
 Stylist selects they wish to cancel a specified appointment. System shows a confirmation message to the user. 					
(alternative course 22.1)					
3. Stylist confirms the cancelation.					
4. System notifies the client via Send Email of the cancelation.					
5. System removes the appointment from the Appointment					
Database.					
Alternative 22.1 Cancel Appointment Cancel (branch after step 2)					
Courses 1. Stylist select they do not wish to cancel the appointment.					
2. System shows confirmation message to the user.					
Exceptions None					
Includes UC-1 Send Email					
Priority Low					
Frequency of Use Stylists may cancel one or two appointments a year.					
DB Requirements					
appointmentTypes, stylistsXAppointmentTypes – appointments,					
appointments – users, appointments – userNotes					
Special None					
ab a sister to the sister to t					
Requirements					
Requirements Assumptions None					

3.1.23 Use Case 23

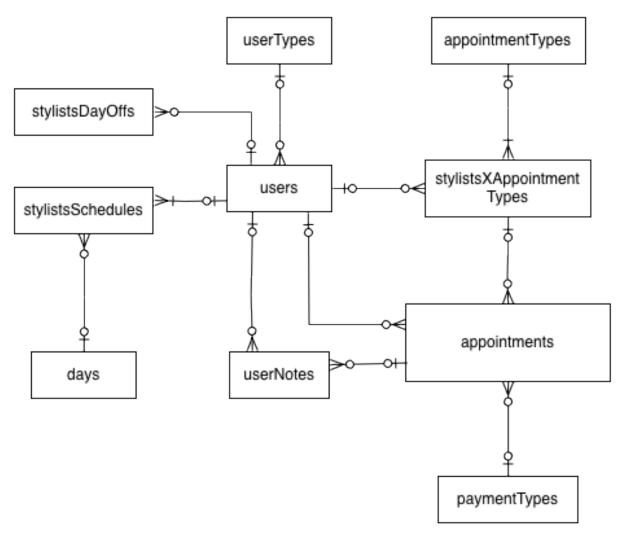
Use Case ID	UC-23	Use Case Name	Create		
Created Du	Mike McParland	Loot Undated Dv	Stylist/Admin		
Created By		Last Updated By	4/05/40		
Date Created	4/20/13	Date Last Updated	4/25/13		
Actors	Admin				
Description	The system Admin can create an account for another admin or a stylist. The admin will enter the name, email, account type (admin or stylist), and a password for the new account. The system will then validate these fields and create a new user in the database. The system will also email the new account informing them it has been created though the new user does not need to take action to activate the account.				
Preconditions	 Admin is logged in with an active account. Admin is on the create new account page. 				
Post conditions	 System creates a new account for the new stylist or admin in the database. System emails new account that it has been created. 				
Normal Course	 Create new Stylist/Admin Admin selects to create a new stylist or admin. System displays the create stylist/admin page. Admin enters the name, email, account type, and password. System validates the inputs. System creates a new account in the database. System uses Send Email to inform the new user of the account creation. 				
Alternative Courses	None				
Exceptions	 23.0.E.1 Create new Stylist/Admin with invalid inputs (at step 4) 1. System display create new stylist or admin page with invalid inputs highlighted. 2. Stylist re-enters inputs with valid fields. 3. System validates the new inputs. 4. System creates a new account in the database. 5. System uses Send Email to inform the new user of the account creation 				
Includes	UC-1 Send Email				
Priority	High				
Frequency of Use	Each time the admin needs to create a new admin or stylist so once or twice a year.				
DB Requirements	users - userTypes				
Special	None				
Requirements					
Assumptions	None				
Notes and Issues	None				

3.1.24 Use Case 24

Use Case ID	UC-24	Use Case Name	Reactivate/Deactivate User
Created By	Kyle Matz	Last Updated By	Kyle Matz
Date Created	4/20/13	Date Last Updated	4/25/13
Actors	Admin		
Description	The administrators can r	eactivate or deactivate	any other type of
	account other than their		
	accounts and the admin		
	reactivate or deactivate.		
	as inactive and unable to		
	account made deactivate	e will still be stored in th	e database but will
	unable to login.		
Preconditions	1) The admin is logged		
D (10)		unts in the system to be	
Post conditions	,	s deactivated in the data	abase.
Normal Course	24.0 Deactivate User		
		the reactivate or deactive	
			count on top and all the
	de-active accoun		
	(alternative cours		ro dopotivoto
		the account they wish to the account as de-active	
Alternative	24.1 Reactivate User (k		ve.
Courses		a de-active account the	wish to reactivate
Courses		the account as active.	wish to reactivate.
Exceptions	None None	the account as active.	
Includes	None		
Priority	Low		
Frequency of Use	Administrators may dead	ctivate or reactivate one	or two accounts per
	year.		
DB Requirements	users		
Special	None		
Requirements			
Assumptions	None		
Notes and Issues	None		

3.1.25 ERD

The ERD below contains all of the entities and the relationships required to support the Use Cases described previously. These specifications will used to design the relational database to be developed as part of the software system. The users - userTypes and users - userNotes relationships will provide necessary details for the implementation of the Client Management System which will encompass account and profile creation and modification. users - stylistsXAppointmentTypes, stylistsXAppointmentTypes - appointmentTypes relationships will allow stylists to assign service types to themselves. users - stylistsSchedules and users - stylistsDayOffs will allow stylists to set their days and times of availability. The users - appointments and appointments - stylistsXAppointments relationships will provide Appointment Management system functionality for both clients and stylists.



3.2 Performance Requirements

Based on our sponsor's needs, we have determined that only one server is needed that will support a virtually unlimited number of connections for the clients (users) to use.

Our software does not limit the number of active users; however, based on our sponsor's needs we have limited the hardware that will be supporting our software. Based on that, our application will support up to 100 active connections.

3.3 Design Constraints

The only constraint the sponsor has for our system is its hosting costs. They have stated they do not wish to spend a lot of money on hosting. Due to this we know that the system running our app will not be extremely powerful. All of the options they can choose from support MySQL for a database and have at least 20GB of hard disk space.

3.4 Quality Attributes

This subsection contains the non-functional requirements, that is, requirements that apply to the software system being developed and not just to a single function or use.

3.4.1 Reliability

Our system will perform at 99.9% uptime given the sponsors conditions and explanations of the user base. The 0.1% downtime is an operational constraint due to Linode promising 99.9% active uptime. This may change based on the app server being used.

3.4.2 Maintainability

The system will be easily maintainable for Java developers. Code will be well commented to allow for quick comprehension. The dynamic nature of the environment will allow for easy movability if needed during extended down time of the server. The code will also be commented using Javadoc which will generate html web pages that can be used to easily maintain the code.

3.4.3 Program Quality Attributes

- Readability: We will ensure easy readability of the code. This is enforced by the agile
 approach that our team has taken towards the development of this software through all
 of its stages. Through agile development, all members of the team have to be able to
 read all of the code and understand it. We have also agreed upon the following coding
 standard.
 - All functions will have descriptive function name
 - e.g.: a string manipulation function that takes in a string and outputs the string into upper cases will be name in the following manner
 - changeStringToUpperCase()
 - Javadocs style commenting for everything
 - This will allow us to export our comments and easily make a manual for the people who will be maintaining the code.
- Robustness: Our software will handle inputs in one of two ways:
 - o Through UI: Our interface will not allow for incorrect input.
 - e.g.: If a given field requires a phone number a submit button will not be active (clickable) unless the phone number is in the correct format
 - Server side sanitation: After a given input is submitted to the server, the application will sanitize all inputs to ensure that no malicious inputs have been bypassed through various means.
 - The above methods will ensure the security of the server and ease of use for all users of the application
- Speed of Execution: Using the Spring framework, we can ensure fast code execution. As
 developers, our code will be turned into objects and given to the JVM. We will use Java
 modules to handle database communication as well as computations which have been
 optimized by the open source community.

3.4.4 Security

Unauthorized use of the software:

- The system will not allow unregistered users access to any part of the system.
- The system will store user information such as emails, phone numbers and names. To
 ensure security and privacy of the passwords, they will be salted and hashed using a
 cryptographic hash.
- Furthermore, we will utilize proper sanitization to protect against SQL injections. The
 server itself will only allow HTTP(S) traffic from all IP addresses and SSH access only
 from the owner of the server for further administration. In return, this will disable attack
 vectors to services that are not implemented. ie: No SMTP connections to the host
 server is needed or required by our application.
- Due to the restrictive nature of the host server, no viruses can penetrate or remotely install on the server

Accidental data loss:

• The administrator of the website is responsible for daily, weekly and bi weekly backups of the database. In the event of data loss in the database, an administrator of the server can resume to an earlier backup minimizing data loss.

3.4.5 Transferability / Conversion

Our system will be written in Java and will be executed by an app server such as Tomcat or Resin. Because of Java's cross platform nature, the software can run on any computer that has an app server and the JDK installed. Furthermore, the end software once compiled from source, is a executable java file which can be inserted to any java supported app server and can be live within seconds. The database can also be exported and imported using various open source MySQL user interfaces.

3.4.6 Operational Quality Attribute

- Ergonomic aspects
 - High Contrast: The contrast between the information displayed on the page and the background of the page will be high enough so that there is no visibility issues for a user.
- Screen layouts
 - Browser window with at least a width 960 pixels.
- User interface languages
 - English: The app will be purely based on the English language. The salon is an English based business and the web app will reflect this aspect.

3.4.7 Operations

Our system only has one mode of operation, running. There are no special forms of operation related to backing up data, updating the system or any other tasks related to the system.

3.4.8 Site Adaptations

The system is a Java web app. The system needs to be installed on a computer running an app server. The installer must install and setup the app server on the computer hosting the system. He must also install the Java 7 JDK. Once both of those have been installed, the installer must place our java executable into the app servers app directory. Once there, the system will be run automatically every time a user visits the server from a web browser.

4. Approvals

Project Sponsors

By signing this Software Requirements Specification document you agree that this document represents a shared understanding that the requirements for the project and the system described will satisfy your needs. Any future changes in this baseline specification will be made through the project's defined change process. You understand that approved changes might require the renegotiation of the scope of the work that can be completed within the allotted time. Approval also constitutes an agreement between you and the development team that the requirements, as stated, provide all that is necessary for the development team to proceed with the design and implementation of the software system.

Lisa Sigurdson		
Alayna Sigurdson		
	re Requirements Specification document you are approvidards for this CSc 190 class.	ring the document
Ahmed M Salem		
	re Requirements Specification document you agree that twill be met for the final project unless a change is agree consor.	•
Alex Chernyak		
Joubin Jabbari		
Kyle Matz		
Mike McParland		
Scott Livingston		
Serge Lysak		

Appendix A - Data Dictionary

This is the Data Dictionary containing a list of all of our data entries and data tables.

Data Element

A list of all the different data elements used in our database.

Element	Meta
amountPaid	Description: An element that will hold the estimated cost per service
	• Type: DECIMAL (5, 2)
	 How it's used: Used to store the final cost of the specified appointment.
	 How its set: The stylist will enter the total cost of the appointment once completed.
	 Validation: The application will require a valid decimal (5,2) or prompt for the user to reenter the value.
appointmentID	 Description: This is be an integer that will store the appointment number.
	• Type: INT
	 How it's used: This will be used to keep track of the different appointments. Each appointment will have a unique integer value.
	 How its set: Each ID will be created by the system at the appointment generation.
appointmentTypeID	Description: A unique integer value that links an appointment with the appointment types table.
	• Type: INT
	 How its used: Used to link the appointments and appointment types tables.
	 How its set: The application generates this value when an appointment is created.

clientID	 Description: A unique integer value to hold the client of a given appointments ID.
	• Type: INT
	 How it's used: Used to link the appointment table to the users table in the application.
	 How its set: System creates a unique int when each user is created and that will be used to create the clientID of an appointment.
cost	 Description: This will be the amount that the client is paying for the appointment. This amount will be determined by the application.
	• Type: DECIMAL (5, 2)
	 How it's used: The application will store this amount with the appointment information. The stylist will be able to view this amount.
	 How its set: The system will generate this based on the time and services.
dateAdded	Description: Keeps track of the times and dates various entries are created.
	Type: DATETIME
	 How it's used: The application will use this to know when a particular entry was added to the database.
	How its set: The application will automatically generate the date added in order to track when an entry was created.
dateCanceled	 Description: Holds the date of when an appointment was cancelled.
	Type: DATETIME
	 How it's used: Used to keep track of when the appointment was cancelled in the application.
	How its set: When a user selects to cancel an appointment the application will automatically generate this value.

dateModified	Description: Holds the time and date of the last change made to particular entry.
	Type: DATETIME
	 How it's used: Used to keep track of when the last modification was made on a particular entry.
	 How its set: System will generate the DATETIME when an entry is modified in the application.
dateReviewed	 Description: Keeps track of the date and time that an appointment is reviewed and approved or denied.
	Type: DATETIME
	 How it's used: The application will use this to know when a particular appointment was reviewed.
	 How its set: The application will generate this when a stylist review a pending appointment.
day	Description: Stores the name of the day. Monday to Sunday
	Type: DATETIME
	 How it's used: Used to know the different days of the week and their spellings.
	How its set: Hardcoded into the application.
description	 Description: Holds the different services that will be provided by the stylist for the appointment.
	Type: VARCHAR(1024)
	 How it's used: This will be used by the application to determine which service the client wants to have done. It will help also determine the cost of the particular appointment.
	 How its set: The user will enter this information when the appointment is created.
	 Validation: The application will validate the inputs from the user and prompt if there was an incorrect entry.

email	 Description: An email address associated with a particular account.
	• Type: VARCHAR(45)
	 How it's used: Identifying attribute for an account and how a user will login and be contacted.
	 How its set: During the creation of an account, an email address will be used and associated with.
	 Validation: The UI will validate that a set of characters, a (at) sign, another set of characters, a (dot) and finally a CANN domain such as: com, net, org
endDateTime	Description: The ending date of a particular appointment.
	Type: DATETIME
	 How it's used: Specifies the ending date for a particular appointment.
	 How its set: When an appointment is created the system will generate an ending date for the appointment.
endTime	 Description: Hold the end time of an event. This will be the final date of a particular thing.
	• Type: TIME
	 How it's used: Used to determine the end date of a particular event such as time off or a particular schedule.
	How its set: Set by the user creating the event.
	 Validation: The application will ensure that validation is a correct date in the future.

firstName	Description: The specific users first name
	• Type: VARCHAR(45)
	How it's used: Used to refer to the person either on the landing page of the website or in the email header when sending out for contact. It will also be used to identify people to the stylist on his/her schedule.
	 How its set: Each user will set his/her name during the account creation process. Stylist and Admin accounts firstname is set during the creation of their accounts by the admin user.
	 Validation: The UI will validate that the name is in fact a valid string.
hairColor	Description: Holds the hair color of an user.
	Type: VARCHAR(45)
	 How it's used: Used to show the hair color of a user on their profile.
	How its set: Upon profile creation a user will enter their hair color that the application saves.
	 Validation: The system will validate the input is a color of hair.
hairLenght	Description: This element will be an optional descriptor to a client's hair length
	Type: VARCHAR(45)
	How it's used: It is used by the stylist to gauge if the given amount of time for a given hair appointment is appropriate.
	 How its set: Set when the client chooses to modify and provide further information for his/her profile.
	 Validation: Any string is valid for this field. The application will filter all escape characters to protect against SQL injections.

la a la Ota da	
hairStyle	Description: The hairstyle of a client.
	• Type: VARCHAR(45)
	How it's used: Used to store the style of hair a client has so the stylist knows what will be needed for the appointment
	How its set: The user enters their hairstyle into a field on the profile page
isActive	 Description: A bit that holds whether or not a particular user's account is active. If the account is inactive it cannot be logged into.
	Type: BIT
	 How it's used: This bit is used by the application determine whether or not an account is active.
	How its set: Admins can set if an account isActive bit is set or not.
	 Validation: Application generated and therefore will always be valid.
isApproved	Description: A bit that stores whether or not an appointment has been approved by the stylist.
	Type: BIT
	 How it's used: The application will use this to determine whether or not a stylist has approved any given appointment made by a client.
	How its set: The application will set this bit based on the stylists review of the appointment.

isCanceled	 Description: Indicates if a given appointment is cancelled or not.
	• Type: BIT
	 How its used: The client, after creating his or her appointment and getting a notification of approval, can then cancel his or her appointment. This will set a 1 or a 0 if the application is cancelled or not.
	 How its set: Set when the stylist or client chooses to cancel a given appointment.
lastName	Description: The specific users last name
	Type: VARCHAR(45)
	 How it's used: Used to refer to the person either on the landing page of the website or in the email header when sending out for contact. It will also be used to identify people to the stylist on his/her schedule.
	 How its set: Each user will set his/her name during the account creation process. Stylist and Admin accounts last name is set during the creation of their accounts by the admin user.
	 Validation: The UI will validate that the name is in fact a string.
modifiedBy	Description: The last user to modify a user's notes.
	• Type: INT
	 How it's used: A foreign key linking to a user in the users table.
	How its set: Set by the system when a note is edited.
note	Description: A set of notes left by the user or the stylist.
	Type: VARCHAR(1024)
	How it's used: to help provide a better environment.
	How its set: When the appointment is made by any user.

noteID	Description: A primary key for a user note entry.
	Type: INT
	How it's used: Used to find the user note.
	How its set: Set by the system when the note is created.
password	Description: All users salted hash of their passwords.
	Type: VARCHAR(160)
	How it's used: To login to the system.
	How its set: When the account is created.
passwordResetID	 Description: A system generated string of random characters.
	• Type: VARCHAR(1024)
	 How it's used: Used when a user attempts to reset their password.
	 How its set: When a user generates a password reset request, this string is generated by the system.
passwordSalt	Description: The original salt of all of the passwords.
	• Type: VARCHAR(160)
	How it's used: To login to the system.
	How its set: When the account is created.
paymentType	Description: This is the type of payment used by a client for a particular appointment.
	• Type: VARCHAR(45)
	How it's used: The application will store this type so the stylists or client can view it in the appointment history.
	 How its set: This will be set by the stylist when the client makes a payment.

paymentTypeID	Description: The id used as a key for the payment Types table.
	• Type: INT
	 How it's used: The application will use this to tie an appointment to the payment for that appointment in the database.
	How its set: The application will generate this int when the appointment is created.
phone	Description: The primary phone number stored for a user. This will be the main form of contact used besides email.
	Type: VARCHAR(10)
	 How it's used: The application will store this number with the users profile and will be displayed to any stylist viewing the profile.
	 How its set: The user will enter this number when they update or create a profile.
	Validation: The application will validate the input of the user as a valid phone number.
phone2	Description: Users can enter a secondary phone number that they can be contacted act if they are unreachable at the first one.
	Type: VARCHAR(10)
	 How it's used: The application will store this number with the users profile and will be displayed to any stylist viewing the profile.
	How its set: The user will enter this number when they update or create a profile.
	 Validation: The application will validate the input of the user as a valid phone number.

picture	 Description: Picture of hair of a user or a picture of hair done by the stylists. These are displayed on the users profile page.
	Type: MEDIUMBLOB
	 How it's used: Used by the application to show a stylists a picture of a client's hair or clients can example works of a stylists work.
	 How its set: The user will upload the picture to the system when they update or create their profile.
	 Validation: The application will validate that the image uploaded by the user.
scheduleID	Description: A reference to the schedule table
	• Type: INT
	 How it's used: To associate a stylist with the proper appointment
	 How its set: When a stylist designates a working window, this element will be populated by the system.
startDateTime	Description: Denotes the start date of an appointment
	Type: DATETIME
	 How it's used: To ensure that the correct blocks of times are closed off if an appointment is made. Also, to keep track of which client is being service by which stylist.
	 How its set: During the creation of the appointment by the client.
startTime	Description: Denotes the start time of an appointment
	• Type: TIME
	 How it's used: To ensure that the correct blocks of times are closed off if an appointment is made. Also, to keep track of which client is being service by which stylist.
	 How its set: During the creation of the appointment by the client.

stylistID	Description: An ID to associate a user whose member type denotes stylist to a stylist table
	• Type: INT
	How it's used: To keep track of the stylists
	 How its set: When a stylist is created, the system will assign an integer to each stylist.
stylistsXAppointmentTy peID	 Description: Value used to reference the appointment with the appointment type.
	• Type: INT
	 How it's used: Used by the application to link the appointments, stylistsXAppointmentTypes and appointmentTypes.
	 How its set: The system generates this int when an appointment is created.
userID	Description: A unique ID given to a user whose member level denotes a regular user (client).
	• Type: INT
	 How it's used: To associate users to their proper table with minimal overhead.
	 How its set: During the creation of the account, they are assigned by the system.
userType	Description: An identifier to user types. eg: Admin, Stylist or Client
	• Type: INT
	 How it's used: Used to determine a user's access levels to different feature of the system.
	How its set: Hardcoded into the database.

userTypeID	Description: The primary key for the userTypes table.
	• Type: INT
	 How it's used: Used to look up the user type related to a user.
	How its set: Hardcoded into the database.

Data Tables

A list of tables in our database including all the data elements used by each tables as well as their size and estimated growth rates.

Table	Meta
appointments	Description: The table used to store appointments between clients and stylists.
	 How it is set: When a new appointment is created a new row is added to the
	 How it is used: Used to look up information related to specific appointments.
	Number of "records": 0
	 Expected growth in number of "records": 10 per day per stylist
	"Record" size in bytes: 113
	 Composition clientID - 4 bytes stylistsXAppointmentTypeID - 4 bytes modifiedBy - 4 bytes appointmentID - 4 bytes paymentType - 45 bytes startDateTime - 8 bytes endDateTime - 8 bytes dateAdded - 8 bytes dateCanceled - 8 bytes dateModified - 8 bytes dateReviewed - 8 bytes ammountPaid - 4 bytes cost - 3 bytes isApproved - 1/8 bytes isCanceled - 1/8 bytes

appointmentTypes	 Description: Holds the services that are going to be done at a specific appointment.
	 How it is set: Created when a user creates an appointment.
	 How it is used: Used by the application to store the different services that will be done at an appointment.
	Number of "records": 10
	Expected growth in number of "records": 10+ year
	"Record" size in bytes: 1040 bytes
	 Composition appointmentTypeID - 4 bytes description - 1024 bytes dateAdded - 8 bytes motifiedBy - 4 bytes
days	 Description: A list of static entries for the different days of the week.
	 How it is set: All entries in this table are set up when the system is created.
	 How it is used: Used to set up each stylist's availability for each day of the week.
	Number of "records": 7
	 Expected growth in number of "records": 0. It will not grow.
	 "Record" size in bytes: 45 bytes
	Composition ○ day - 45 bytes

paymentTypes	Description: Stores the type of payment in which the appointment was paid for.
	How it is set: The application will generate this when a user creates and appointment.
	 How it is used: Used by the application to determine the payment type used for a given appointment.
	Number of "records": 4
	Expected growth in number of "records": 4
	"Record" size in bytes: 94 bytes
	 Composition paymentTypeID - 4 bytes paymentTypeType - 45 bytes paymentSubType - 45 bytes
stylistsDayOffs	 Description: Indicates a day where a stylist has no availability.
	How it is set: The stylist would indicate that they wish to take a certain day off.
	 How it is used: A day off will set a stylists availability to none for that day without affecting the stylist's schedule.
	Number of "records": 0
	Expected growth in number of "records": 2 per month
	"Record" size in bytes: 22
	 Composition: scheduleID - 4 bytes stylistID - 4 bytes startTime - 3 bytes endTime - 3 bytes dateAdded - 8 bytes

stylistsSchedules	 Description: Contain that times for each day that the stylists plans to work.
	 How it is set: The stylist enters the hours they are going to work each day.
	 How it is used: The application will use this to determine the availability of each stylist.
	Number of "records": 3
	 Expected growth in number of "records": 1+ for each new stylist
	"Record" size in bytes: 59
	 Composition scheduleID - 4 bytes stylistID - 4 bytes day - 45 bytes startTime - 3 bytes endtime - 3 bytes
stylistsXAppointmentTypes	 Description: A cross table that links stylists with appointment types.
	 How it is set: When a stylist adds types of appointments they can service a new row is created.
	 How it is used: Used to link a stylist with an appointment type
	Number of "records": 0
	 Expected growth in number of "records": ~10 per stylist
	"Record" size in bytes: 27 1/8
	 Composition stylistXAppointmentTypeID - 4 bytes stylistID - 4 bytes appointmentTypeID - 4 bytes isActive - 1/8 bytes dateAdded - 8 bytes modifiedBy - 4 bytes cost - 3 bytes

userNotes	Description: Each entry represents the notes entered into a particular field.
	 How it is set: The user will enter the desired notes for a particular field.
	 How it is used: The application will allow the user to view notes on an appointment or profile.
	Number of "records": 0
	 Expected growth in number of "records": 1+ per new client
	"Record" size in bytes: 1048
	 Composition modifiedBy - 4 bytes noteID - 4 bytes userID - 4 bytes appointmentID - 4 bytes note - 1024 bytes dateAdded - 8 bytes
userTypes	Description: A static table in the database containing an entry for each of the different types of users (Admin, Stylist, Client)
	 How it is set: The entries in the table will be added when the system is created.
	 How it is used: Used to grant permissions for each user.
	Number of "records": 4
	Expected growth in number of "records": 0
	"Record" size in bytes: 49
	CompositionuserTypeID - 4 bytesUserType - 45 bytes

Description: A table with a list of users for the system.
How it is set: When a new user is created a new row is added.
 How it is used: Used to look up and interact with users.
Number of "records": 9
Expected growth in number of "records": 1+ per day.
"Record" size in bytes: 2177
 Composition userID - 4 bytes userTypeID - 4 bytes modifiedBy - 4 bytes lastName - 45 bytes firstName - 45 bytes email - 45 bytes isActive - 1/8 bytes dateAdded - 8 bytes dateModified - 8 bytes password - 160 bytes passwordSalt - 160 bytes passwordResetID - 1024 bytes picture - ⊥ + 3 bytes, where ⊥ < 2²⁴ phone - 10 bytes phone - 10 bytes hairStyle - 45 bytes hairColor - 45 bytes hairLength - 45 bytes