# Schemas for SE Hi-Run Application

#### Client

Client Id	First	Last	Default	Default	Apt No.	Additional	Default	City*	State*
	Name*	Name*	Phone #	Address		Addr. Info	Zip Code		

This is all one table

Completed	Total	Is Admin
Runs	Runs	

<sup>\*</sup>denotes required field

Client Id PK- auto-incrementing integer

First Name/Last Name – alphabetic string between 2 and 20 characters each

Default Phone # -optional alphanumeric formatted field e.g. (210) 555-1234

**Default Address** – optional alphanumeric field between 5 and 30 characters

**Apt No.** – Alphanumeric string, max 10 characters

Additional Address Info – Alphanumeric string for any additional information needed for delivery

**Default Zip Code** – optional numeric string/integer 5 characters long

City – alphabetic field between 3 and 20 characters long

State – alphabetic field between 4 and 20 characters long

Completed Runs – integer field that represents the number of runs to the client that have been completed

**Total Runs**— integer field that represents the number of runs that have been accepted by the client, Runs that the runner fails to complete will not be counted here

**Is Admin** – integer field will be left empty unless the user is an administrator

#### **Additional Notes:**

- Everybody that uses the app will create an initial client account
- Client Ratings will be out 100 percent and will be calculated by dividing the number of completed runs by the number of total runs
- The default fields are optional and may be changed by the client at any time. When requesting a run the client will have the option to use their default information
- At this point, creating a Admin Client User will require direct access to the Database to create

#### **Client Auth**

Cid*	Username*	Password Hash*
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<sup>\*</sup> denotes required field

Cid – foreign key to Client Id above

**Username** – alphanumeric string between 7 and 20 characters long

Password Hash – alphanumeric hash for the client's password max 50 characters long

## (Cid, Username) PK

## **Runner**

Runner	First	Last	Phone	City*	State*	Birthday*	Rating*	Completed	Failed	ls
ld*	Name*	Name*	#*					Runs	Runs	Admin

<sup>\*</sup>denotes required field

Runner Id PK- auto-incrementing integer

First Name/Last Name – alphabetic string between 2 and 20 characters each

Phone # - alphanumeric formatted field e.g. (210) 555-1234

City – alphabetic field between 3 and 20 characters long

State – alphabetic field between 4 and 20 characters long

Birthday – alphanumeric string representing runner's birthday and age, format mm-dd-yyyy

Rating – double field that shows the current rating of the runner, max 5

Completed Runs – integer field that represents the number of runs to the client that have been completed

**Failed Runs** – integer field that represents the number of runs that have been accepted by the runner but that the runner failed to complete

Is Admin – integer field that will be left empty unless the user is an administrator

#### **Additional Notes:**

- In order to be a runner, the user must be a client first and must apply to be a runner. The user will send his/her email address, SSN and possibly other personal info to us. We or somebody else will then perform a background check and then email them their runner account information.
- Ratings will be out 5 and will be given by clients that have been serviced by the runner. The initial rating will be set to 3.
- There should some sort of age limit in order to be a runner. Obviously a runner who is underage will not be able to perform certain tasks such as buying alcohol.
- Creating a Admin Runner User will require direct access to the Database to create

### **Runner Auth**

<sup>\*\*</sup> may be broken into multiple fields, see below

Rid*	Username*	Password Hash*
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<sup>\*</sup> denotes required field

# Rid – foreign key to Runner Id above

**Username** – alphanumeric string 6 characters long to be given by an Admin, format will be similar to UTSA logins and will consist of 3 letters, followed by 3 numbers

Password Hash – alphanumeric hash for the runner's password max 50 characters long

(Rid, Username) PK

## <u>Area</u>

Area Id PK – auto incrementing integer

City – alphabetic field between 3 and 20 characters long

State - alphabetic field between 4 and 20 characters long

**Runners in Area** - the number of runners in a particular area, when a runner logs in, this increments by 1, when a runner logouts, this decrements by 1

#### **Additional Notes:**

- This is a just a preliminary way of tracking runners in a particular area
- This may not be good enough as more and more counties are registered

## <u>Run</u>

Ī	Run	Clnt	Rner	Description*	Money	Type*	Bid/Offer	Time	Client
	ld*	ld*	Id		Required*		Amount	Needed*	Phone#*

This is all one table

Client	Apt.	Additional	City*	State*	Zip	Time	Time	Estimated Time
Address*	No	Addr. Info			Code*	Posted*	Accepted	to Complete

<sup>\*</sup>denotes required field

Run Id PK- auto-incrementing integer

Clnt Id – foreign key to Client Id above

Rner Id – foreign key to Runner Id above

Description – alphanumeric client entered description of job/run, max 100 characters

Money required – alphabetic field that specifies whether a run/job requires money

**RunType-** alphabetic string labeling the type of job; if a job requires money only Gratuity options and Bid will available to select, if no money is required then only Bid and Offer types will be selectable. Types listed below:

- Gratuity w/ approval means client must approve the runner's acceptance of the job/run
- Gratuity w/o approval no approval needed from client when a runner accepts a job
- **Bid** runners will bid on the run/job and client will choose which to go with.
- Offer w/ approval— if a run does not require money and the client does not want to use the bidding
  process, the client may specify this type and the amount that they are offering to complete the job. The
  client must approve the runner's acceptance of the offer.
- Offer w/o approval no approval need from client when a runner accepts the offer

**Bid/Offer Amount** – integer field that shows the Bid/offer amount. If Bid was selected, this field will remain empty until the client and runner have agreed on a bid; if Offer was selected then this will be the amount that is being offered. For gratuity types, this field will remain empty.

Time needed – client will specify a time that the job/run is needed or ASAP

Client Phone # - alphanumeric formatted field e.g. (210) 555-1234

Client Address –alphanumeric field between 5 and 30 characters

**Apt No. –** Alphanumeric string, max 10 characters

Additional Address Info – Alphanumeric string for any additional information needed for delivery

City – alphabetic field between 3 and 20 characters long

State – alphabetic field between 4 and 20 characters long

**Zip Code** –numeric string/integer 5 characters long

**Time Posted** - the time that the run/job was posted, will be to the minute if not second of posting

Time Accepted - the time that the run/job was accepted, will be to the minute if not second of posting

**Estimate Time to Complete** - the time entered by the runner that estimates to amount of time that the job will take to complete from the time that the job/run was accepted

#### **Additional Notes:**

- This will be a list of all runs that are either waiting for a runner to be committed and runs that already have a runner committed. On the app, when a runner has been committed to a run, the job/run is taken off the list of runs that are currently available for a runner to pickup, but will stay in this table until the run has been completed.
- When a run is initially posted, the Rner Id will be left empty until a runner has been committed to a run
- A valid credit card must be on file for a run to be posted by a client; we probably shouldn't have this
  data in the database but instead should store it through a third party (PayPal etc...)
- The gratuity for a job will automatically be set at %20 before tax of whatever the runner paid

- Bids are covered below
- We may need to limit to length of time that a job/run can stay posted, especially for offers

## <u>Bids</u>

Ru Id\* Runr Id\* Amount\*

\*denotes required field

Ru Id – foreign key to Run Id above

Runr Id – foreign key to Runner Id above

Amount – integer that represents the amount of the bid

(Ru Id, Runr Id) PK

#### **Additional Notes:**

 This table will only represent Bids on runs that have not been accepted by the client. Once a bid has been accepted all Bids associated with that run will be deleted and the winning bid amount will be stored in <u>Run</u>

## Run Log\*\*

Time Completed\*

**Time Completed** - the time that the run/job was completed, will be to the minute if not second of completion

#### **Additional Notes:**

An entry in this table will created once a runner has confirmed a run has been completed. The
associated entry in <u>Run</u> will be removed as well.

<sup>\*</sup>denotes required field

<sup>\*\*</sup>This table will have the same fields as Run with the addition of the above one