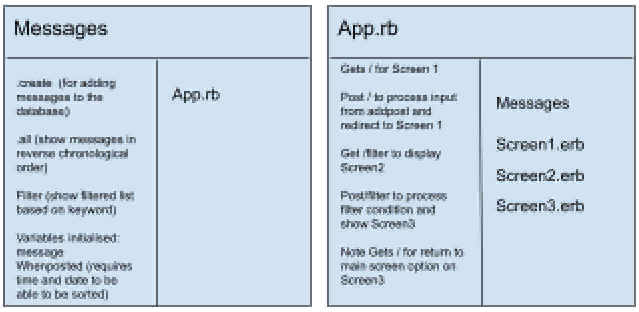
CRC cards

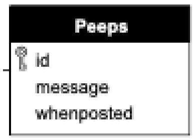


Messages	
.create (for adding messages to the database) .all (show messages in reverse chronological order) Filter (show filtered list based on keyword) Variables initialised: message Whenposted (requires time and date to be able to be sorted)	App.rb

App.rb	
Gets / for Screen 1 Post / to process input from addpost and redirect to Screen 1 Get /filter to display Screen2 Post/filter to process filter condition and show Screen3 Note Gets / for return to main screen option on Screen3	Messages Screen1.erb Screen2.erb Screen3.erb

Entity diagram:

Note whenposted to be TIMESTAMP WITH TIME ZONE DEFAULT CURRENT_TIMESTAMP



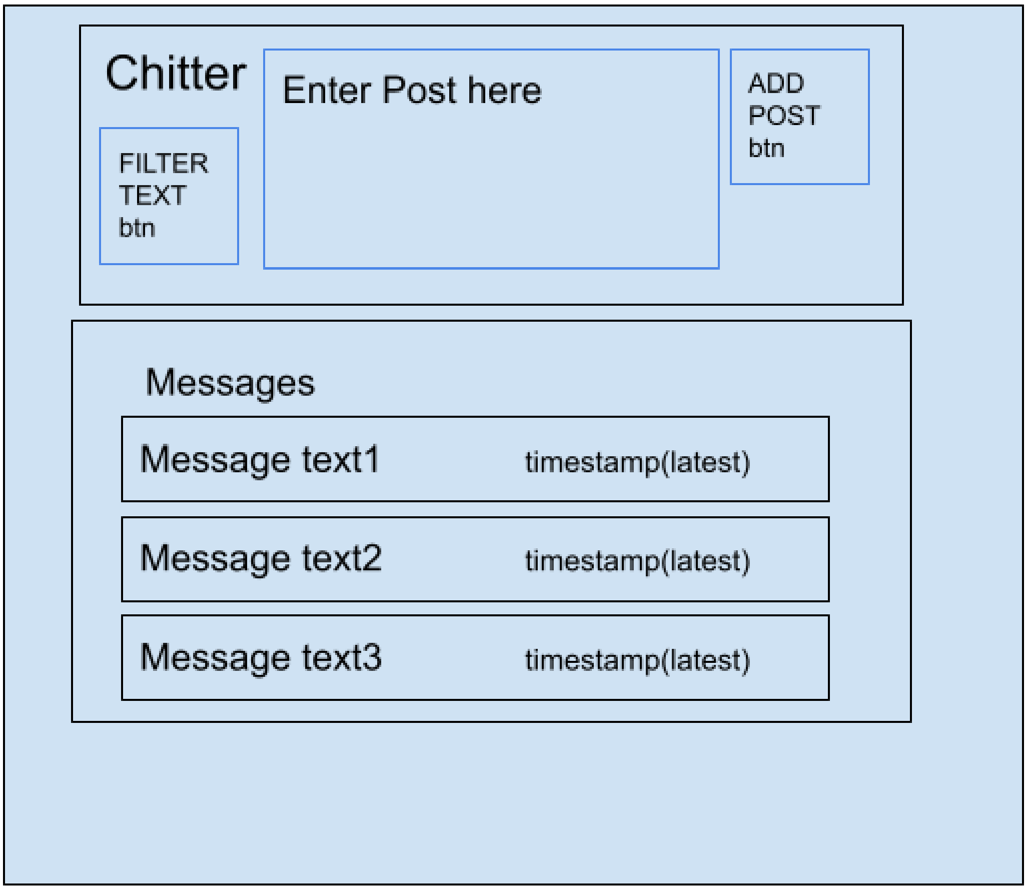
Peeps
id
message
whenposted

```
ALTER TABLE peeps
        ADD whenposted TIMESTAMP WITH TIME ZONE DEFAULT
CURRENT_TIMESTAMP;
```

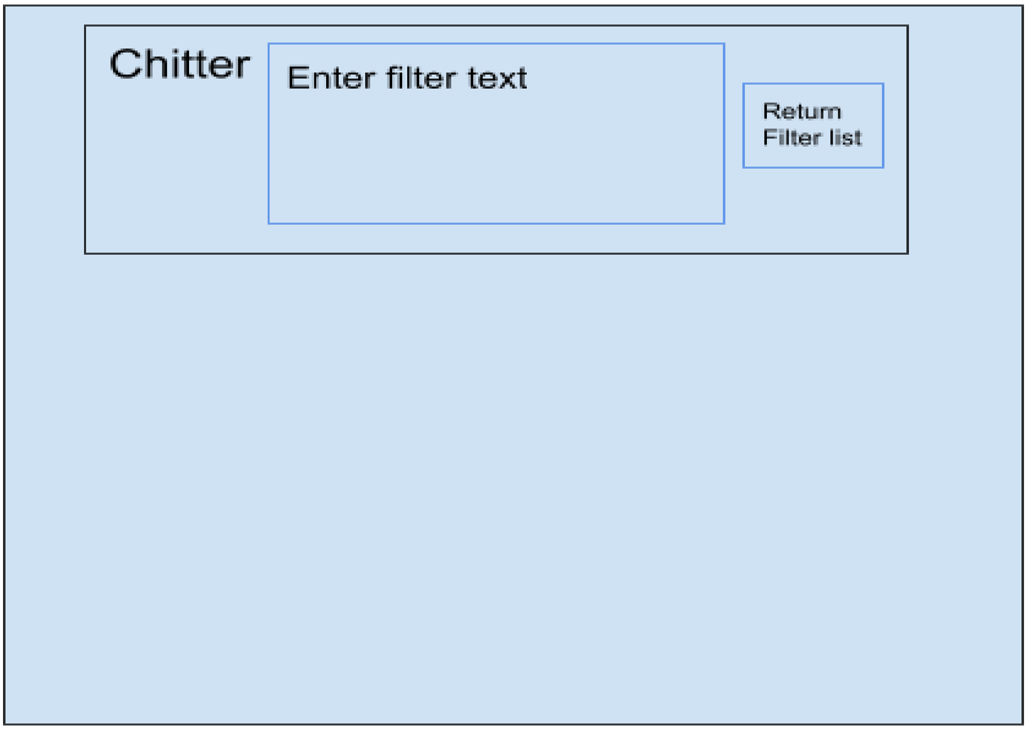
Note assuming that the user will supply their name in the message field and this will be filterable, as user stories have not specified a name explicitly.

Sketch of each page of app that user sees

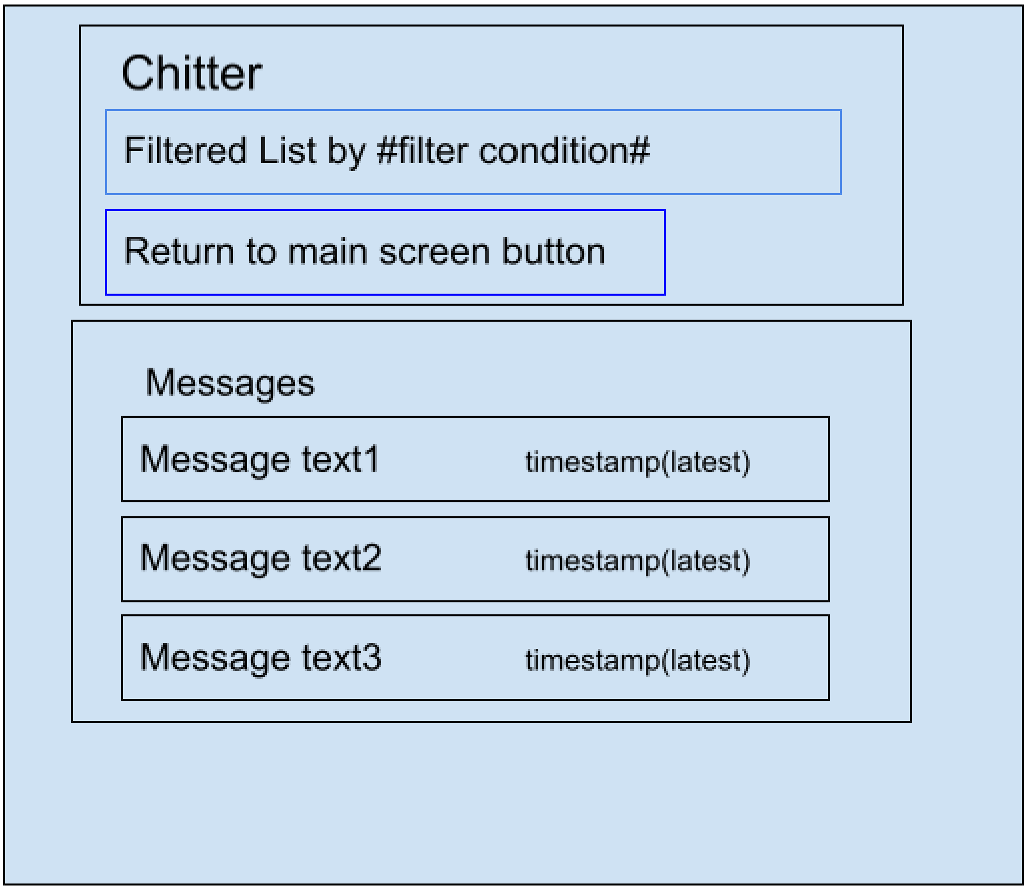
Screen1



Screen2



Screen3


Chitter

Filtered List by #filter condition#

Return to main screen button

Messages

Message text1 timestamp(latest)

Message text2 timestamp(latest)

Message text3 timestamp(latest)

User stories.

As a Maker
So that I can see what people are doing
I want to see all the messages (peeps)
in a browser
```
As a Maker
So that I can let people know what I am doing
I want to post a message (peep) to chitter
```

```
As a Maker
So that I can see when people are doing things
I want to see the date the message was posted
```
(Hint the database table will need to change to store the date too)

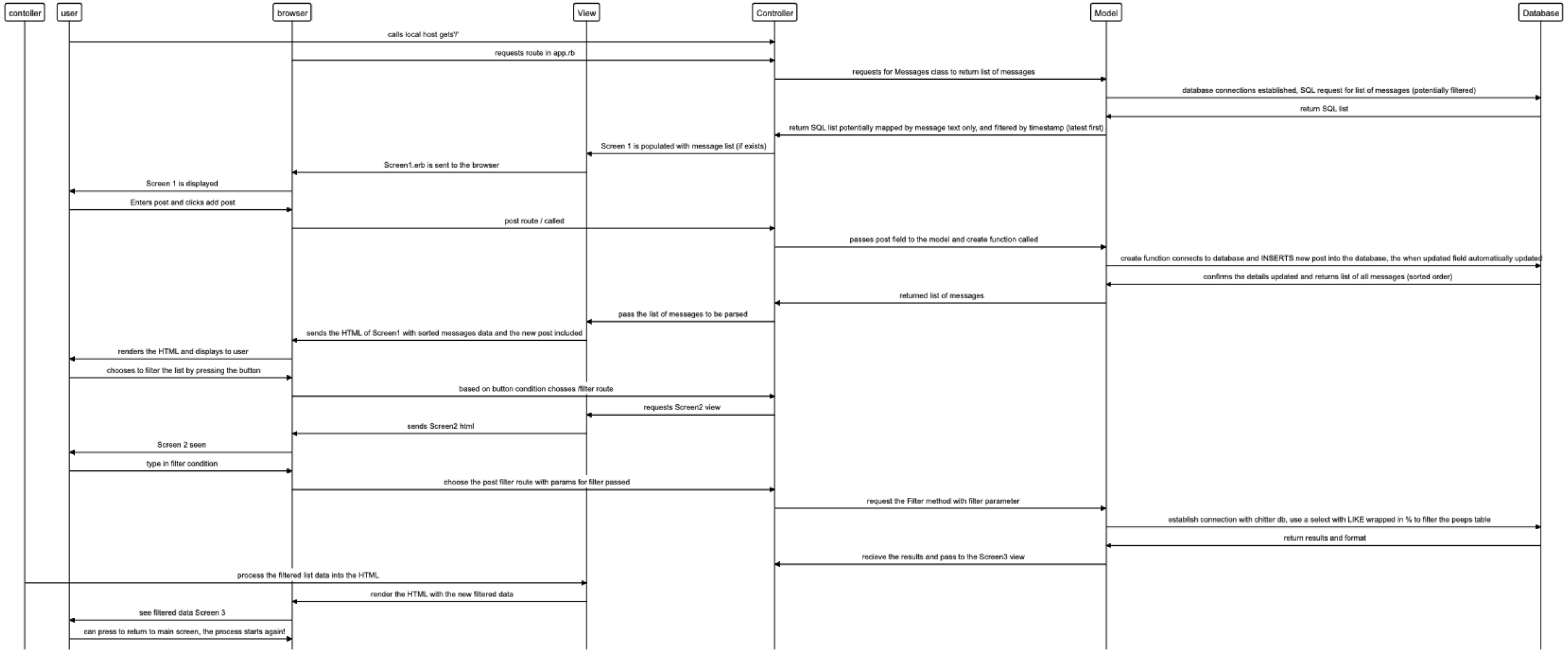
```
As a Maker
So that I can easily see the latest peeps
I want to see a list of peeps in reverse chronological order
```
```
As a Maker
So that I can find relevant peeps
I want to filter on a specific keyword

Nouns: messages(peeps), chitter, date, keyword
Verbs: see, post, list, order, filter
```

List of requests / responses involved (word + diagram)

```
alias user="user"
alias  browser = "browser"
alias view="View"
alias controller = "Controller"
alias model = "Model"
alias database = "Database"


user -> controller: "calls local host gets'/'"
browser -> controller: "requests route in app.rb"
controller -> model: "requests for Messages class to return list of messages"
model -> database: "database connections established, SQL request for list of messages (potentially filtered)"
database -> model: "return SQL list"
model -> controller: "return SQL list potentially mapped by message text only, and filtered by timestamp (latest first)"
controller -> view: "Screen 1 is populated with message list (if exists)"
view -> browser: "Screen1.erb is sent to the browser"
browser -> user: "Screen 1 is displayed"
user -> browser: "Enters post and clicks add post"
browser -> controller: "post route / called"
controller -> model: "passes post field to the model and create function called"
model -> database: "create function connects to database and INSERTS new post into the database, the when updated field automatically updated"
database -> model: "confirms the details updated and returns list of all messages (sorted order)"
model -> controller: "returned list of messages"
controller -> view: "pass the list of messages to be parsed"
view -> browser: "sends the HTML of Screen1 with sorted messages data and the new post included"
browser -> user: "renders the HTML and displays to user"
user -> browser: "chooses to filter the list by pressing the button"
browser -> controller: "based on button condition chooses /filter route"
controller -> view: "requests Screen2 view"
view -> browser: "sends Screen2 html"
browser -> user: "Screen 2 seen"
user -> browser: "type in filter condition"
browser -> controller: "choose the post filter route with params for filter passed"
controller -> model: "request the Filter method with filter parameter"
model -> database: "establish connection with chitter db, use a select with LIKE wrapped in % to filter the peeps table"
database -> model: "return results and format"
model -> controller: "receive the results and pass to the Screen3 view"
controller -> view: "process the filtered list data into the HTML"
view -> browser: "render the HTML with the new filtered data"
browser -> user: "see filtered data Screen 3"
user -> browser: "can press to return to main screen, the process starts again!"
```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recieve the results and pass to the Screen3 view
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see filtered data Screen 3
can press to return to main screen, the process starts again!

NOTE a whenposted field is assumed in the diagram above: