

Goals

- As much functionality as possible but without adding so much that its unachievable
- Create an application that is complete and shippable
 - As few bugs as possible
- Simple, clean interface

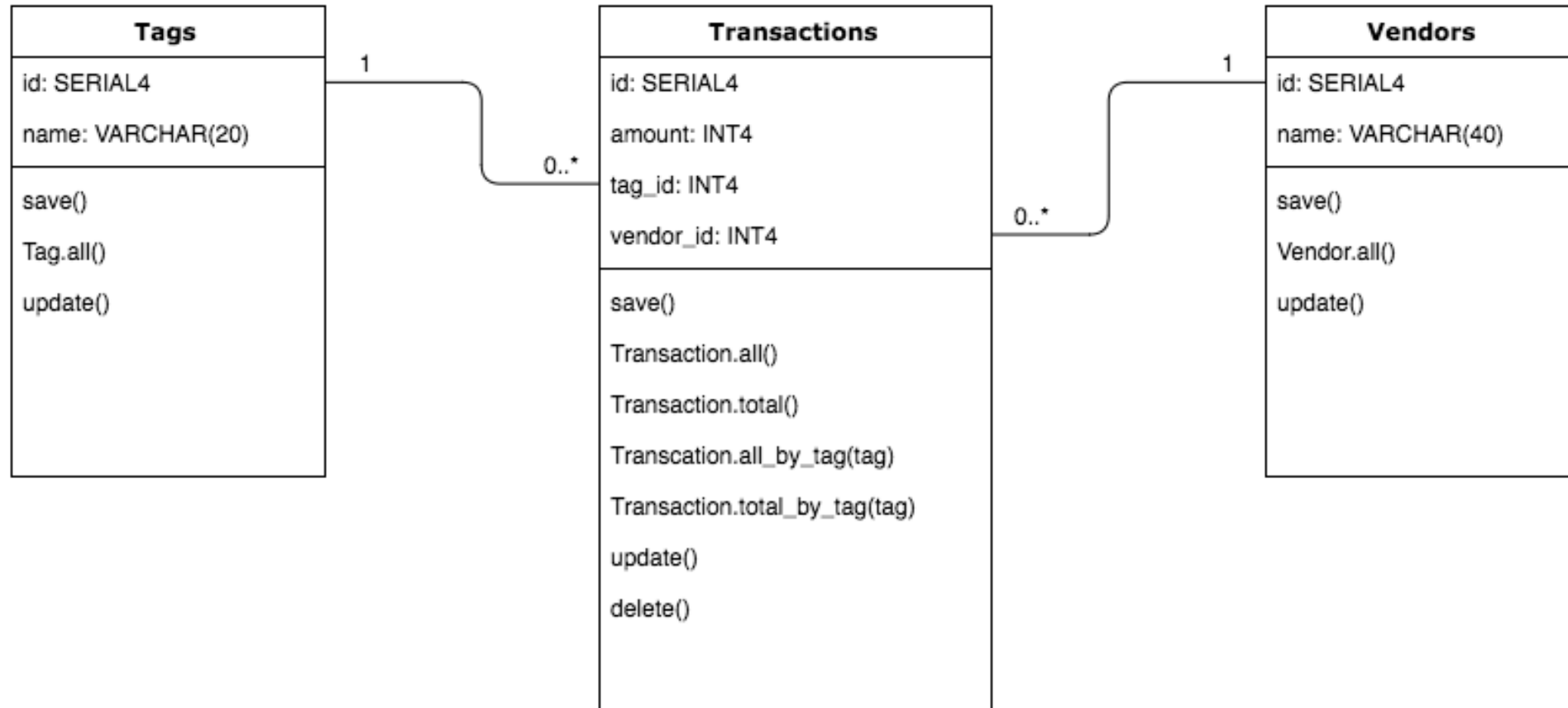


Money Cashboard

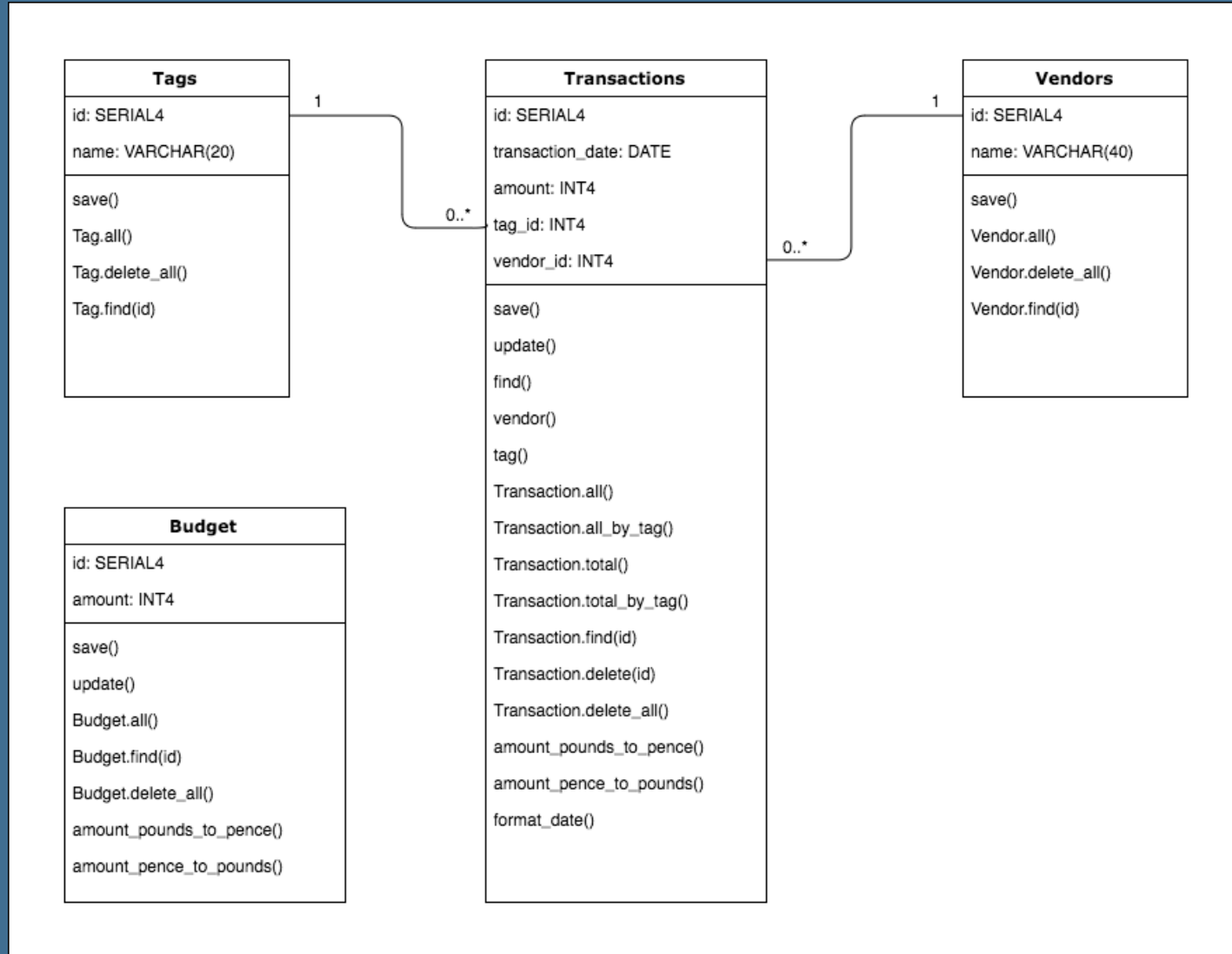
Planning

- Mostly planned back end:
 - db tables
 - models/methods,
 - controllers/views
- Trello Board
- Class diagram
- Planned the front end very early on – created wireframe diagram last Friday

Planning – Class Diagram - Original



Planning – Class Diagram - Final



Planning – Front End

- Proto_persona.pptx
- User_requirements.xlsx
- User_journeys.xlsx

Planning – Wireframe

Money Cashboard

← → ↺ <http://localhost:4567>

Money Cashboard

£123

£55 £43 £23

View Transactions

All By Tag

Date	Amount	Merchant	Type	Tag
11/11/17	£12	Tesco	CC	Food
11/11/17	£3	Sainsburys	DC	Food
12/11/17	£5.99	MacDonalds	C	Food
13/11/17	£31	Sky	DD	TV

New Transaction

New Account

New Tag

Demo

Explain Code – Amount Conversion - Methods

```
transaction.rb x
112
113   # Helper methods
114
115   def amount_pence_to_pounds()
116       return "%0.2f" % (@amount.to_f / 100)
117   end
118
119   def amount_pounds_to_pence()
120       return (@amount * 100).to_i
121   end
```

Explain Code – Amount Conversion - Save

```
transaction.rb x
17
18 def save()
19   @amount = amount_pounds_to_pence()
20   sql = "INSERT INTO transactions
21     (transaction_date, amount, tag_id, vendor_id)
22     VALUES
23     ($1, $2, $3, $4)
24     RETURNING id;"
25   values = [@transaction_date, @amount, @tag_id, @vendor_id]
26   result = SqlRunner.run(sql, values).first()
27   @id = result['id'].to_i
28 end
```

Explain Code – Amount Conversion - View

```
index.erb x
26 <table>
27   <tbody>
28     <% @transactions.each do |transaction| %>
29     <tr>
30       <td> <%= transaction.format_date %></td>
31       <td> f<%= transaction.amount_pence_to_pounds() %></td>
32       <td><%= transaction.tag.name %></td>
33       <td><%= transaction.vendor.name %></td>
34       <td id="button"><a href="/transactions/<%= transaction.id %>">...</a></td>
35     </tr>
36     <% end %>
37   </tbody>
38 </table>
39 </div>
```

Explain Code – Date Conversion - Method



transaction.rb



```
123     def format_date()  
124         return @transaction_date.strftime("%d/%m/%Y")  
125     end  
126  
127 end
```

Explain Code – Date Conversion - View

```
index.erb x
26 <table>
27   <tbody>
28     <% @transactions.each do |transaction| %>
29     <tr>
30       <td> <%= transaction.format_date %></td>
31       <td> f<%= transaction.amount_pence_to_pounds() %></td>
32       <td><%= transaction.tag.name %></td>
33       <td><%= transaction.vendor.name %></td>
34       <td id="button"><a href="/transactions/<%= transaction.id %>">...</a></td>
35     </tr>
36     <% end %>
37   </tbody>
38 </table>
39 </div>
```

Improvements

- Helper methods (converting pounds/pence & pence/pounds) are duplicated in two models – need to refactor to move them into a separate helper class
- Need to improve how the website responds to resizing the browser
- Add multiple budgets
- Add accounts

Learning Points

- Planning is key
 - Planning the models, methods, controllers, views etc.
 - Having a clear vision of what the app should look like in the UI
- I need to get more outside my comfort zone in the next project (focus more on back end code)
- Sinatra is picky about () in erb tags.
 - This works:

```
<%= (Transaction.total.to_f() /100) %>
```
 - This doesn't!:

```
<%= (Transaction.total.to_f /100) %>
```