

The Andela Developer Challenge

--Python Bucketlist--

The Andela Developer Challenge is founded on the premise that aspiring Technology Leaders learn programming whilst building things that matter. That the best way to learn code is by building a complete product. As we build applications that solve real problems, we internalize deeply the skills needed to be World Class Software Developers.

Contents

[Introduction](#)

[Product Roadmap](#)

[Challenge 1](#)

[Challenge 2](#)

[Challenge 3](#)

[Challenge 4](#)

[Product Requirements](#)

[Recommended Tutorials and Samples](#)

[Other Resources](#)

[Pre-Bootcamp Email](#)

Introduction

App Name	Bucketlist
Language/Frameworks	Python/Flask/React/Postgresql
Challenge	The challenge of <i>-----keeping track of dreams and goals----</i> is a need for <i>-----many individuals-----</i> that requires an innovative and robust solution that will <i>----- allow them to remember and share the fun with others -----</i> .
App Description	The innovative <i>-----bucketlist app-----</i> is an application that <i>-----allows users to record and share things they want to achieve or experience before reaching a certain age -----</i> meeting the needs of <i>-----keeping track of their dreams and goals -----</i> .
Required Features	Users create accounts Users can log in Users create, view, update and delete bucket lists. Users can add, update, view or delete items in a bucket list

Product Roadmap

To complete this project the application will need to have:

Challenge 1

1. Create a [Github repository](#).
2. Create a folder called UI.
 - a. **Without implementing the core functionality**, build the user interface with HTML/CSS . Build pages that will allow the following:
 - i. User registration
 - ii. User login
 - iii. Creation of a bucketlist for logged in users
 - iv. Viewing of one's bucketlists with UI elements for deletion and editing a bucket list as well as adding activities to a bucket list
 - v. Adding items to a bucketlist
 - b. Push 5 or more [valid commits](#) while building this UI.
3. Create a [UML class diagram](#) for your application.
4. Create a [pull request](#) and request two of your friends to review it.
5. Create a [Pivotal tracker board](#) mapping tasks and features required to complete challenge. This will help you keep track of your progress. It should at least capture the required features.

Note: From here onwards, you're expected to use the Pivotal Tracker board to document and manage all implementations (chores and features).

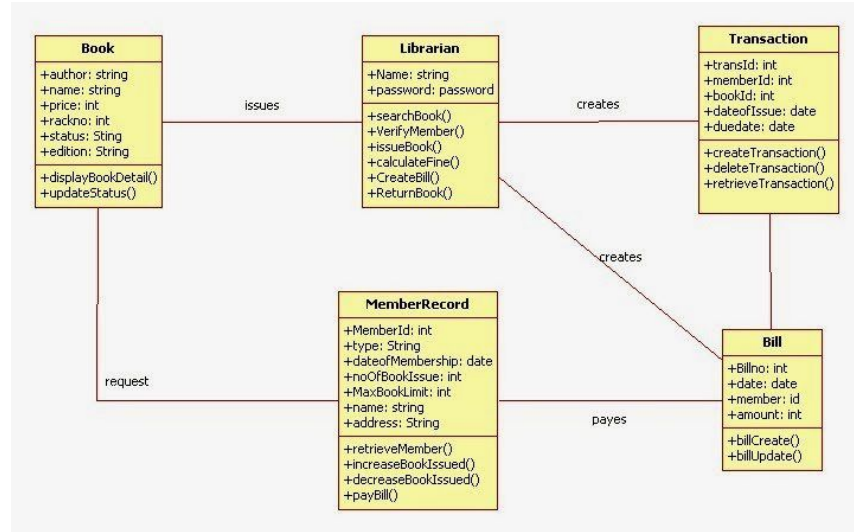
Challenge 1 Resources

Github	<p>Watch the Videos, version control and GIT here</p> <p>Use Git Workflow, Git branch, Commit Message and Pull Request (PR) standards.</p> <p>Also adhere to the GitHub Flow guidelines to facilitate code reviews.</p> <p>- Git and Github commands tutorial</p> <p>Git basics</p> <p>Git cheat sheet</p> <p>Practice Git (try.github.io)</p> <p>Github basics</p>
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- Sample valid pull requests

[Pull request templates](#)

```
#### What's this PR do?
#### Where should the reviewer start?
#### How should this be manually tested?
#### Any background context you want to provide?
#### What are the relevant tickets?
#### Screenshots (if appropriate)
#### Questions:
- Is there a blog post?
- Does the knowledge base need an update?
- Does this add new (Python) dependencies which need to be added to che
f?
```

UML class diagram for a library management system

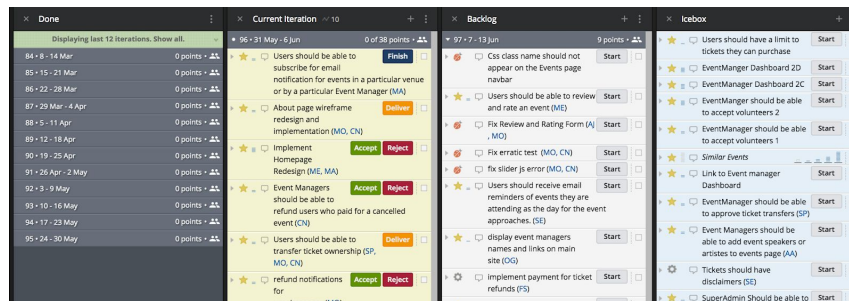
HTML/CSS

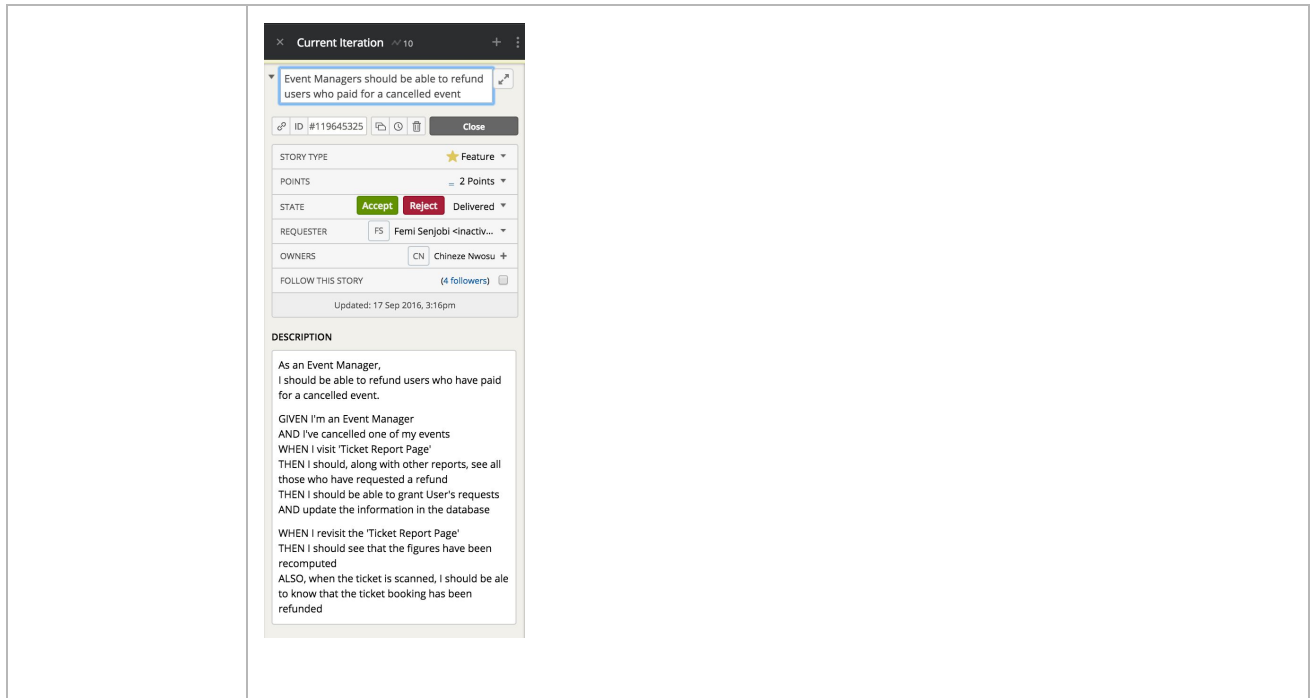
Use **SASS/SCSS** to implement all custom styling

Agile

Use a project management tool (**Pivotal Tracker**) to manage your progress on the tasks. Assigns points and prioritizes tasks.

- **Sample Pivotal Tracker board**





Challenge 1 Self-Assessment Guidelines

NOTE: Developers should use this as a general rubric to assess quality of their work. Mentors and Facilitators should use this to give **feedback** on areas that should be improved on.

Criterion	Does not Meet Expectation	Meets Expectations	Exceed Expectations
Github Commits and Version Control	Commits are not consistent at all and/or contain messages that are meaningless and not context specific.	Commits are atomic, consistent and contain meaningful messages that are context specific.	Commits follow a convention for commits using keywords based on the context of the commit like FIXES/FEATURES/TEST S etc.
Presence of a README	No README present.	README is present and shows information necessary to get the application running. README also show how to run tests and how to use the application. README also contains test coverage badge.	README is extremely detailed and includes more than 2 other badges and images.
HTML/CSS & FRONT END	Fails to develop HTML/CSS webpage	Successfully develops HTML/CSS webpage	Writes modular css that can be reused through

DEVELOPMENT		while observing standards such as doctype declaration, proper document structure and has consistency in the markup	markup selectors such as class, id and , Can confidently re-arrange divs
UI/UX	Solution is poorly styled and does not follow UI/UX style guides and conventions.	Solution makes good use of UI/UX conventions.	
PIVOTAL TRACKER	Does not break down the project into manageable tasks	Breaks down project into incremental stories and puts them into the appropriate categories e.g. icebox, backlog...	Updates the pivotal tracker with time/effort estimates for each assigned task, updates story cards with activity taken
OOP	Has no UML diagram	UML diagram captures attributes and methods	

Challenge 2

- Ensure Challenge 1 is complete and merge with master.
- Setup [Flask](#).
- Setup [Pylint](#) for linting and ensure your work follows PEP8 style guide requirements.
- Setup [unit testing](#) libraries and ensure minimal tests written.
Note: From here onwards, you're expected to practise Test-Driven Development.
- Develop **features** enabling user to Create, Read, Update and Delete **non-persistent data** (no database required, data is lost when application stops) using OOP.
- Building on the UI templates developed in Challenge 1, create a user interface to access functionality above implemented with HTML/CSS/Bootstrap or Materialize.
- Integrate [TravisCI](#) for Continuous Integration in your repository (with *ReadMe* badge).
- Integrate **test coverage reporting** (e.g. **Coveralls**) with badge in the *ReadMe*.
- Obtain **CI badges** (e.g. from **Code Climate** and **Coveralls**) and add to *ReadMe*.
- Create a pull request and request two of your friends to review it.
- Deploy** your Flask application to Heroku.

Challenge 2 Resources

Python 3.6 - Flask	What's new in Python 3.6 ? Create a virtual environment for your project
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	Create a requirements.txt file to store your dependencies Setup Flask
Testing	Setup libraries for testing and test runners. Practise Test Driven Development .
PEP8 - Python style guides	Setup linting to ensure your code follows PEP8 standards. See guidelines for python code .
Continuous Integration	Integrate HoundCI for style checking commits in your PRs Integrate a CI tool (e.g. TravisCI or CircleCI) to also run tests and report pass/fail state with badge in readme and also test coverage reporting(e.g. coveralls)with badge in the readme. Obtain CI badges from Code Climate and Coveralls . <i>p.s this should be in the readme</i>
Continuous Deployment	Host a working version of the application on Heroku .

Challenge 2 Self-Assessment Guidelines

NOTE: Developers should use this as a general rubric to assess quality of their work. Mentors and Facilitators should use this to give **feedback** on areas that should be improved on.

Criterion	Does not Meet Expectation	Meets Expectations	Exceed Expectations
Data Structures	Fails to implement CRUD or Implements CRUD with persistence	Implements CRUD without persistence	Uses the most optimal data structure for each operation
Programming Logic	Fails to write a function that returns a value	Translates requirements into working functions which are implemented with best practices in mind	Optimizes code to effectively use system resources
Test-Driven Development	Solution did not attempt to use TDD	Writes tests that pass and achieves 70% test coverage	Writes tests that pass and achieves > 100% code coverage

OOP	Fails to write classes that incorporate basics of OOP	Writes classes with attributes and methods	Reuses code via class inheritance
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Challenge 3

18. Create a new Repo in which you will develop a Flask API.

Note: From here onwards, you're expected to practise Test-Driven Development.

19. Create models for the data which the API will be manipulating using **SQLAlchemy**.

20. Implement data persistence using **Postgresql**

21. Create a **RESTful API** using Flask with Endpoints that:

- a. Enable users to create accounts and login into the application

EndPoint	Public Access
POST /auth/register	TRUE
POST /auth/login	TRUE
POST /auth/logout	TRUE
POST /auth/reset-password	TRUE

- b. Enable users to create, update, view and delete a bucket list

EndPoint	Public Access
POST /bucketlists/	FALSE
GET /bucketlists/	FALSE
GET /bucketlists/<id>	FALSE
PUT /bucketlists/<id>	FALSE
DELETE /bucketlists/<id>	FALSE

- c. Add, update, view or delete items in a bucket list

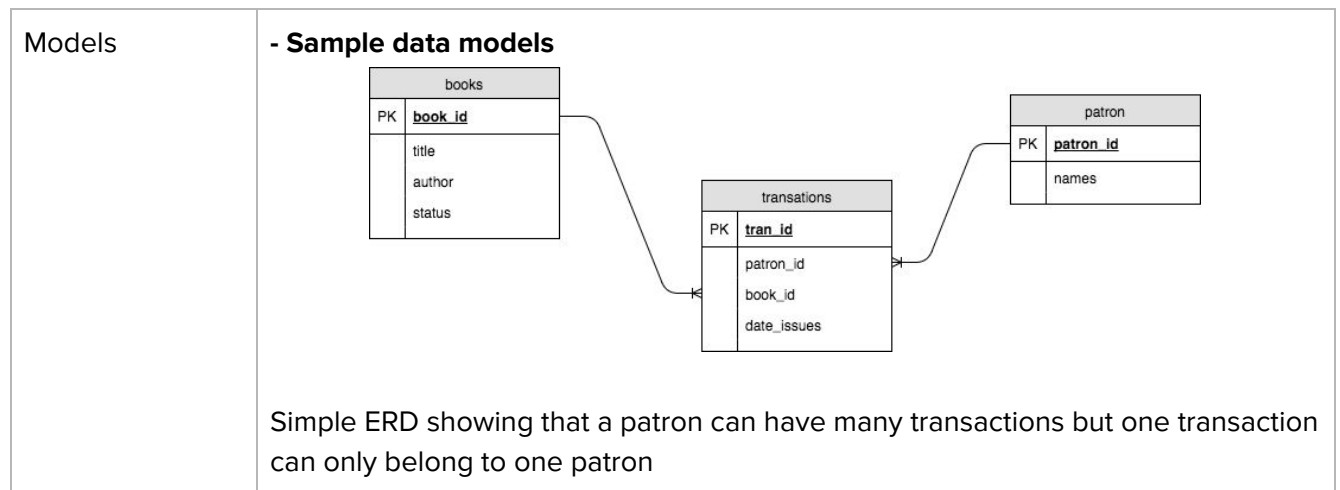
EndPoint	Public Access
POST /bucketlists/<id>/items/	FALSE

PUT /bucketlists/<id>/items/<item_id>	FALSE
DELETE /bucketlists/<id>/items/<item_id>	FALSE

22. Implement **Token Based Authentication** for the API such that methods besides login and register are not accessible to unauthenticated users.
23. Create scripts for handling migration of data when the data model changes.
24. Implement searching based on the name using a GET parameter **q**.
25. Implement pagination on your API so users can specify the number of results they would like to have via a GET parameter **limit**.
26. Test API with **Postman**.
27. Using a tool like [Swagger](#) or [Apiary](#), document your API. The documentation should be accessible via your application's URL.
28. Integrate [TravisCI](#) for Continuous Integration in your repository (with *ReadMe* badge).
29. Integrate **test coverage reporting** (e.g. **Coveralls**) with badge in the *ReadMe*.
30. Create a pull request and request two of your friends to review it.
31. Merge with master
32. Deploy to Heroku.

Challenge 3 Resources

Databases	Postgresql - Setting up Database PostgreSQL installation guide- Windows PostgreSQL installation on Ubuntu
SQLAlchemy	For this task you will be creating the models for the data which your application will be manipulating. This should be done using SQLAlchemy.
Build API	<p>Download and install the Google Chrome app Postman. This would be used to test the API you are building.</p> <p>Before you begin this section, ensure to review this material Best Practices for a pragmatic RESTful API</p> <p>In this task you are required to create the API endpoints described above using any of Flask, Flask-RESTful or Flask-RESTless as primary framework.</p>
Document API	<p>Use a tool like Swagger or Apiary to document your API</p> <p>- Sample API Base URL, API Key and API Documentation</p> <p>Base URL: https://newsapi.org/v1</p> <p>API Key: 213327409d384371851777e7c7f78dfe</p> <p>Documentation: https://newsapi.org/#documentation</p>



Challenge 3 Self-Assessment Guidelines

NOTE: Developers should use this as a general rubric to assess quality of their work. Mentors and Facilitators should use this to give **feedback** on areas that should be improved on.

Criterion	Does not Meet Expectation	Meets Expectations	Exceed Expectations
Databases	Unable to create database models for the given project	Has a database design that is normalized and can store, update and query records from the database	Creates table relationships
Security	Fails to implement authentication and authorization in given project	Successfully implements authentication and authorization in the project	Develops features to reset passwords, delete users and creates custom and descriptive error messages
Token-Based Authentication	Does not use Token-Based authentication	Makes appropriate use of Token-Based authentication and secures all private endpoints.	
API	Fails to develop an API that meets the requirements specified	Successfully develops an api that gives access to all the specified end points	Handles a wide array of HTTP error codes and the error messages are specific

Challenge 4

33. Ensure challenge 3 is complete and merge with master

34. Create a new Repo in which you will develop a ReactJS client to consume the API you built in challenge 3.
35. Improve your front-end prototype built in challenge 1 using **Bootstrap** or **Material Design Framework**.
36. Setup **eslint** for linting and ensure you have the style guide [rules](#) configured properly.
37. Set Up a react application using [create-react-app](#). (All Javascript **MUST** be written in **>=ES6** and should use **Babel** to transpile down to **ES5**).
 - a. This should contain all the features pre-designed in previous challenges.
 - b. The implementation should make use of the API built in Challenge 3.
38. Write tests for all components using Enzyme, Jest or any relevant testing utility.
39. Write End-to-End tests for all features implemented using Protractor, Nightwatch or any Selenium-based libraries.
40. Integrate [TravisCI](#) for Continuous Integration in your repository (with *ReadMe* badge).
41. Integrate **test coverage reporting** (e.g. **Coveralls**) with badge in the *ReadMe*.
42. Obtain **CI badges** from **Code Climate** and **Coveralls**. These should be in the *ReadMe*.
43. Integrate **HoundCI** for style checking commits in your PRs according to the ESLint configuration.
44. Ensure your front-end is also hosted on Heroku.
45. Create a pull request and request two of your friends to review it.

Challenge 4 Resources

ReactJS - Flux/Redux - Webpack - Task-runners	<p>Use ReactJS with the Flux architecture for your implementation (see resource here)</p> <p>Install and configure Webpack to run mundane tasks like convert SCSS -> CSS, run your tests(Integration and unit).</p> <p>A task runner should be setup to handle the various tasks that the application requires which include serving the app, and testing the app</p>
ES6 + Babel	All Javascript MUST be written in >=ES6 and should use Babel to transpile down to ES5
OOP + SRP	Classes/modules MUST respect the SRP (Single Responsibility Principle) and MUST use the >=ES6 methods of <i>module imports and exports</i> .
Consume API	Find Base URL, API Key and Documentation for the API you intend your application to consume.

All Resources and Assessment Guidelines

Self-Assessment Guidelines

NOTE: Developers should use this as a general rubric to assess quality of their work. Mentors and Facilitators should use this to give **feedback** on areas that should be improved on.

Criterion	Does not Meet Expectation	Meets Expectations	Exceed Expectations
Presence of a README	No README present.	README is present and shows information necessary to get the application running. README also show how to run tests and how to use the application. README also contains test coverage badge.	README is extremely detailed and includes more than 2 other badges and images.
File Structure	File Structure is not organized and done in a haphazard manner.	Files are properly organized in folders named based on the function. Test are	

		organized in folders based on what they are testing.	
Comments	Solution is not commented.	Solution contains adequate comments.	Solution uses doc style comments and is self documenting.
Github Commits	Commits are not consistent at all and/or contain messages that are meaningless and not context specific.	Commits are consistent and contain meaningful messages that are context specific.	Commits follow a convention for commits using keywords based on the context of the commit like FIXES/FEATURES/TEST S etc.
Token Based Authentication	Token-Based authentication was not used or <i>solution made use of persistent session data in any way.</i>	Solution made appropriate use of Token-Based authentication and all private endpoints are secure.	
Code Functionality	The code does not work in accordance with the ideas in the problem definition.	The code meets all the requirements listed in the problem definition.	The code handles more cases than specified in the problem definition.
Code Readability	Code is not easily readable or is not commented. The names for variables, classes, and procedures are inconsistent and/or not meaningful. Negligence of style guides.	Code is easily readable and necessarily commented. The names for variables, classes, and procedures are consistent and/or meaningful. Style Guides are adhered to.	
Test Coverage	Solution did not attempt to use TDD.	70% test coverage.	100% test coverage or 0% test coverage like a Bawse.
UI/UX	Solution is poorly styled and does not follow UI/UX style guides and conventions.	Solution makes good use of UI/UX conventions.	
Defense	Cannot clearly articulate why they did what they did or why certain portions of their code behaves in a certain way. Does not understand	Understands exactly what they did and is able to clearly communicate that.	In addition to knowing and explaining exactly what pieces of their code works, they can also articulate how the source code of libraries

	underlying concepts/ Copied and pasted code.		used influences code behavior.
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Product Requirements

Challenge 1		
Github	<p>Create a GitHub repository and clone it locally. Use Git Workflow, Git branch, Commit Message and Pull Request (PR) standards.</p> <p>Also adhere to the GitHub Flow guidelines to facilitate code reviews.</p>	[]
OOP	You should have UML Class Diagrams for your system. Keep the diagrams in a /designs folder.	[]
HTML/CSS	Use SASS/SCSS to implement all custom styling	[]
Agile	Use a project management tool (Pivotal Tracker) to manage your progress on the tasks. Assigns points and prioritizes tasks.	[]

Challenge 2		
Python 3.6 - Flask	<p>What's new in Python 3.6?</p> <p>Create a virtual environment for your project</p> <p>Create a requirements.txt file to store your dependencies</p> <p>Setup Flask</p>	[]
		[]

Testing	<p>Setup libraries for testing and test runners.</p> <p>Practise Test Driven Development.</p>	[]
		[]

.eslint - Airbnb style guides	Use a .eslint in your root directory of your project as your eslint configuration (in your IDE) to expose Javascript syntax errors / nitpicks. Make sure to extend the airbnb styleguide .	[]
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PEP8 - Python style guides	Setup linting to ensure your code follows PEP8 standards. See guidelines for python code .	[]
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Continuous Integration	<p>Integrate HoundCI for style checking commits in your PRs</p> <p>Integrate a CI tool (e.g. TravisCI or CircleCI) to also run tests and report pass/fail state with badge in readme and also test coverage reporting(e.g. coveralls)with badge in the readme.</p> <p>Obtain CI badges from Code Climate and Coveralls. <i>p.s this should be in the readme</i></p>	[]
Continuous Deployment	Host a working version of the application on Heroku .	[]

Challenge 3		
Databases	Use Sqlite or Postgresql	[]
SQLAlchemy	For this task you will be creating the models for the data which your application will be manipulating. This should be done using SQLAlchemy.	[]
Build API	<p>Download and install the Google Chrome app Postman. This would be used to test the API you are building.</p> <p>Before you begin this section, ensure to review this material Best Practices for a pragmatic RESTful API</p> <p>In this task you are required to create the API endpoints described above using any of Flask, Flask-RESTful or Flask-RESTless as primary framework.</p>	[]

Challenge 3 & 4		
ReactJS - Flux/Redux - Webpack - Task-runners	<p>Use ReactJS with the Flux architecture for your implementation (see resource here)</p> <p>Install and configure Webpack to run mundane tasks like convert SCSS -> CSS, run your tests(Integration and unit).</p>	[]

	A task runner should be setup to handle the various tasks that the application requires which include serving the app, and testing the app	
ES6 + Babel	All Javascript MUST be written in >=ES6 and should use Babel to transpile down to ES5	[]
OOP + SRP	Classes/modules MUST respect the SRP (Single Responsibility Principle) and MUST use the >=ES6 methods of <i>module imports and exports</i> .	[]
Consume API	Find Base URL, API Key and Documentation for the API you intend your application to consume.	[]
Document API	Use a tool like Swagger or Apiary to document your API	[]

Recommended Tutorials and Samples

- Git and Github commands tutorial

Git basics

Git cheat sheet

[Practice Git \(try.github.io\)](https://try.github.io)

Github basics

- Sample valid pull requests

Pull request templates

```
#### What's this PR do?
#### Where should the reviewer start?
#### How should this be manually tested?
#### Any background context you want to provide?
#### What are the relevant tickets?
#### Screenshots (if appropriate)
#### Questions:
- Is there a blog post?
- Does the knowledge base need an update?
- Does this add new (Python) dependencies which need to be added to che
f?
```

#6684 CSS error on hover of item with parent #1116


Open

phoenixbox wants to merge 1 commit into master from 6684-hover-subitem...

Conversation 0

Commits 1

Files Changed 1

 phoenixbox commented an hour ago

Fixes #6684: <https://sprint.ly/product/1/#/item/6684>

What's this PR do?

Fixes the hover appearance for subitems on a parent card. Now when hovering over the mention of a subitem in a parent item cards description, the description doesnt wrap to a second line

Where should the reviewer start?

Small CSS change made in `html/static/less/modules/views/products/item.less`

How should this be manually tested?

- When viewing an item card view which has at least one child subitem
- Hover over a mention of the subitem in the item cards description
- You should see no wrapping of text on the popup card parent view header (refer to screenshots for clarity)

Any background context you want to provide?

@chrisforrette is working heavily on the item card view modal, does this css change conflict?

What are the relevant tickets?

#6684

The screenshot shows a GitHub commit message editor. A red box highlights a line of text: "An apostrophe must be able to choose the sort order of active". Below this, there is a red box with the text "The Item do...". The editor also shows a commit message "Harpaged K. started 21 minutes ago." and a commit message "Wire up the sort option on the item-detail page".

- Flask tutorial

The Flask Mega Tutorial

[Getting Started with Flask](#)
[RealPython Flask Boilerplate](#)

- Sample tests

```
import unittest
from my_file import MyClass

class TestCreateRoom(unittest.TestCase):
    def test_create_room_successfully(self):
        my_class_instance = MyClass()
        initial_room_count = len(my_class_instance.all_rooms)
        blue_office = my_class.create_room("Blue", "office")
        self.assertTrue(blue_office)
        new_room_count = len(my_class_instance.all_rooms)
        self.assertEqual(new_room_count - initial_room_count, 1)
```

- TDD tutorial

[Simple Python Unit Test Tutorial](#)

- Sample Pivotal Tracker board

Done	Current Iteration	Backlog	Icebox
Displaying last 12 iterations. Show all.	96 • 31 May - 6 Jun 0 of 38 points	97 • 7 - 13 Jun 9 points	
84 • 8 - 14 Mar 0 points	★ Users should be able to subscribe for email notification for events in a particular venue or by a particular Event Manager (MA) Finish	★ CSS class name should not appear on the Events page navbar Start	★ Users should have a limit to tickets they can purchase Start
85 • 15 - 21 Mar 0 points	★ About page wireframe redesign and implementation (MO, CN) Accept Reject	★ Users should be able to review and rate an event (ME) Start	★ EventManager Dashboard 2D Start
86 • 22 - 28 Mar 0 points	★ Implement Homepage Redesign (ME, MA) Accept Reject	★ Fix Review and Rating Form (AJ, MO) Start	★ EventManager Dashboard 2C Start
87 • 29 Mar - 4 Apr 0 points	★ Event Managers should be able to refund users who paid for a cancelled event (CN) Accept Reject	★ Fix erratic test (MO, CN) Start	★ EventManager should be able to accept volunteers 2 Start
88 • 5 - 11 Apr 0 points	★ Users should be able to transfer ticket ownership (SP, MO, CN) Accept Reject	★ fix slider js error (MO, CN) Start	★ EventManager should be able to accept volunteers 1 Start
89 • 12 - 18 Apr 0 points	★ refund notifications for user/manager (MO) Accept Reject	★ Users should receive email reminders of events they are attending as the day for the event approaches. (SE) Start	★ Similar Events Start
90 • 19 - 25 Apr 0 points		★ display event managers names and links on main site (OG) Start	★ Link to Event manager Dashboard Start
91 • 26 Apr - 2 May 0 points		★ implement payment for ticket refunds (FS) Start	★ EventManager should be able to approve ticket transfers (SP) Start
92 • 3 - 9 May 0 points			★ Event Managers should be able to add event speakers or artists to events page (AA) Start
93 • 10 - 16 May 0 points			★ Tickets should have disclaimers (SE) Start
94 • 17 - 23 May 0 points			★ SuperAdmin Should be able to Start
95 • 24 - 30 May 0 points			

Current Iteration

10

Event Managers should be able to refund users who paid for a cancelled event

ID

#119645325

Close

STORY TYPE

Feature

POINTS

2 Points

STATE

Accept

Reject

Delivered

REQUESTER

PS

Femi Senjobi <inactiv...

OWNERS

CN

Chineze Nwosu

FOLLOW THIS STORY

(4 followers)

Updated: 17 Sep 2016, 3:16pm

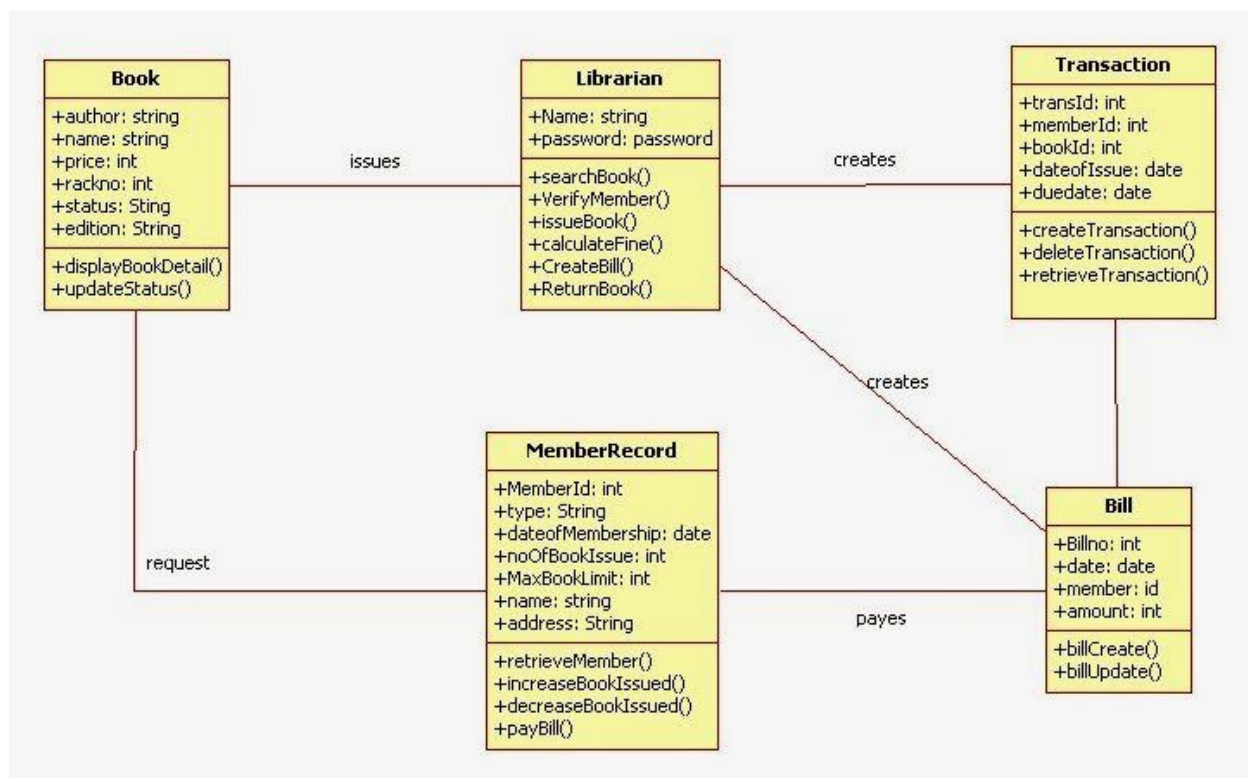
DESCRIPTION

As an Event Manager,
I should be able to refund users who have paid for a cancelled event.

GIVEN I'm an Event Manager
AND I've cancelled one of my events
WHEN I visit 'Ticket Report Page'
THEN I should, along with other reports, see all those who have requested a refund
THEN I should be able to grant User's requests
AND update the information in the database

WHEN I revisit the 'Ticket Report Page'
THEN I should see that the figures have been recomputed
ALSO, when the ticket is scanned, I should be able to know that the ticket booking has been refunded

- Sample UML models, function and class names



UML class diagram for a library management system

- Sample API Base URL, API Key and API Documentation

Base URL: <https://newsapi.org/v1>

API Key: [213327409d384371851777e7c7f78dfe](#)

Documentation: <https://newsapi.org/#documentation>

- ReactJS

[Setting up ReactJS tutorial](#)

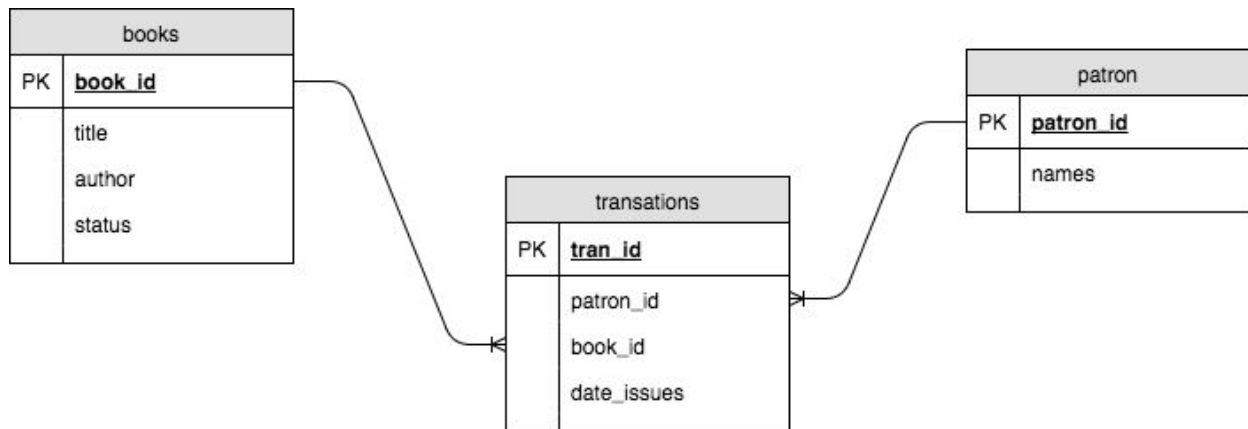
[Sample ReactJS Boilerplate](#)

- Setting up CI and Linting tutorial

[TravisCI setup guide](#)

[Pylint Installation guide](#)

- Sample data models



Simple ERD showing that a patron can have many transactions but one transaction can only belong to one patron

- Setting up Database

[PostgreSQL installation guide- Windows](#)

[PostgreSQL installation on Ubuntu](#)

- Sample API routes and endpoints

EndPoint	Public Access
POST /auth/login	TRUE
POST /auth/register	TRUE
POST /bucketlists/	FALSE

GET /bucketlists/	FALSE
GET /bucketlists/<id>	FALSE
PUT /bucketlists/<id>	FALSE
DELETE /bucketlists/<id>	FALSE
POST /bucketlists/<id>/items/	FALSE
PUT /bucketlists/<id>/items/<item_id>	FALSE
DELETE /bucketlists/<id>/items/<item_id>	FALSE

- API pagination

Request

GET <http://localhost:5555/bucketlists?limit=20>

- API searching

Request

GET <http://localhost:5555/bucketlists?q=bucket1>

