BUSFEED

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Appendix

Purpose

intended to notify passengers of any updates on public transit in real time. Whether you use buses, trains, or other public transportation, the goal of this app is to improve communication and give you timely information on strikes, delays, and other pertinent updates.

Components

Back end

Main technology used is Django. Codependent on Rest framework for API management, and SQ Lite for database manipulation.

django

REST framework

SQLite

Front end

Kept the front side of the project simple by using HTML for format and CSS for styling.

Functionality

Enables easy interaction between users and blog content, including the ability to create, browse, edit, and remove posts.

API Requests

Get method : Retrieval of data

```python
@api_view(['GET'])
def getData(request):
    posts = Post.objects.all()
    serializer = PostSerializer(posts, many=True)
    return Response(serializer.data)
```

Post method : Update of data

```python
@api_view(['POST'])
def addItem(request):
    serializer = PostSerializer(data=request.data)
    if serializer.is_valid():
        serializer.save()
    return Response(serializer.data)
```

Future

It's entirely forseeable to implement a user based system (login, signup) as well as rank users in levels of credebility of information.
Add more detailing to each individual post, such as comments features or popularity index (likes, approval..)

Resources

I've inspired the idea from pre-existing software called Transportr. Which is a useful solution for public transportation users in Europe. And viewed data from API collectives. Below is the github link : https://github.com/MobilityData/awesome-transit

Conclusion

What makes this app practical and useful is how simple and straight forward it is. We need information on our bus timings before we show up at the station and find out we're either too early or too late, maybe even too far removed from news broadcaters to hear about the latest strike. This app's worth lies in a close to real time updates board on transportation means.

Thank you!