Mini Project: Melody Manager

A Music Playlist Management System

Date: 26-06-2025

1.Abstract

Melody Manager is a web-based application designed to help users create, organize, and manage music playlists efficiently. This project demonstrates frontend implementation with simulated backend functionality.

2.Objective

To develop an intuitive, responsive interface for music playlist management that allows users to create multiple playlists, add/remove songs, and reorder tracks.

3.Key Features

- Create and manage multiple playlists
- Add, remove, and edit song details
- Drag and drop reordering of songs
- Search functionality
- Responsive design for all devices

4.Backend Integration

In a full-stack implementation, this frontend would connect to a Python backend using:

```python
# Python Flask Backend Example
from flask import Flask, request, jsonify
import json

app = Flask(__name__)
playlists = []

@app.route('/api/playlists', methods=['GET'])
def get_playlists():
    return jsonify(playlists)

@app.route('/api/playlists', methods=['POST'])
def create_playlist():
    data = request.json
```

```python
        playlists.append(data)

        return jsonify({"success": True})


if __name__ == '__main__':

    app.run(debug=True)
```

5.Future Enhancements

- User authentication system
- Music streaming integration
- Social sharing capabilities
- Advanced playlist analytics
- Collaborative playlist editing