My JPEG: My Journey Plan with Electric Gadi

Βv

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GITHUB Link: https://github.com/surabhi-priyadarshini/My JPEG App/upload/main

1.Problem Statement

Develop and design a mobile application that revolutionizes the electric vehicle (EV) charging experience. The app will address the key challenges faced by EV owners, including the lack of a centralized platform for locating and accessing charging stations, uncertainty about station availability, and the inconvenience of managing charging sessions. By providing a seamless, user-friendly interface, real-time updates on station availability, and integrated payment options, the app aims to simplify the EV charging process, encourage EV adoption, and contribute to a greener, more sustainable future.

2. Assessment

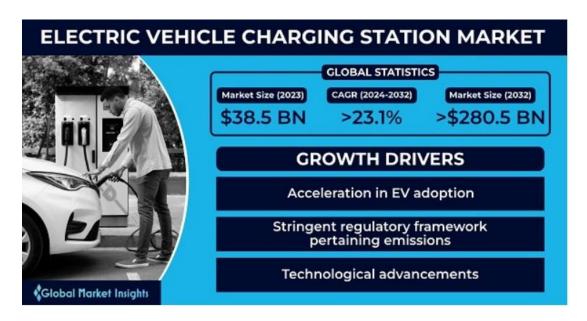
2.1 Market Assessment:

- 1. **Industry Growth:** The electric vehicle (EV) market is experiencing rapid growth globally, driven by increasing environmental concerns, government incentives, and technological advancements in EVs.
- Charging Infrastructure: The expansion of EV charging infrastructure is a key driver for EV adoption. There is a growing need for convenient and efficient charging solutions.
- 3. **Competitor Analysis:** Existing apps like Plug Share, ChargePoint, and Tesla's app offer similar functionalities. However, there is still room for innovation and improvement in the market.
- 4. **Regulatory Environment:** Government regulations and incentives play a significant role in shaping the EV market. It's crucial to stay compliant with standards and regulations related to EV charging.

2.2 Business Assessment:

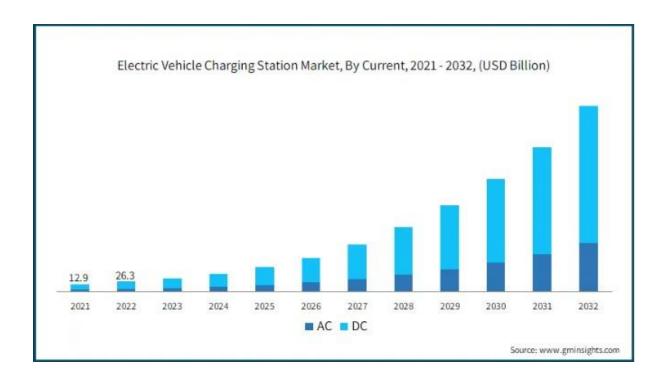
- 1. **Business Model:** Consider a freemium model with basic features available for free and premium features (e.g., advanced station locator, reservation system) offered under a subscription plan or pay-per-use model.
- 2. **Revenue Streams:** Potential revenue streams include subscription fees, transaction fees for charging sessions, advertising, and partnerships with EV manufacturers or charging station operators.

- 3. **Partnerships:** Collaborate with EV manufacturers to integrate your app with their vehicles' systems for a seamless user experience. Partnering with charging station operators can also help expand your app's reach.
- 4. **Value Proposition:** Your app's unique value proposition should focus on providing a seamless, user-friendly experience for EV owners, addressing their key pain points such as finding available charging stations and managing charging sessions.



2.3 Customer Need Assessment:

- 1. **User Surveys:** Conduct surveys to understand the needs and preferences of EV owners regarding charging station accessibility, availability, and payment options.
- 2. **Focus Groups:** Organize focus groups to gather feedback on app prototypes and identify areas for improvement based on user preferences and usability.
- 3. **Competitor Analysis:** Analyse customer reviews and feedback on existing EV charging apps to understand what users like and dislike, and use this information to enhance your app's features and user experience.
- 4. **Usability Testing:** Conduct usability testing with potential users to ensure that your app is intuitive, easy to navigate, and meets their needs effectively.



3. Target Specifications and Characterisation

3.1 Target Specifications:

Here's a detailed target specification and characterization for My JPEG app:

- 1. **Platform:** The app should be available on both iOS and Android platforms to reach a wide audience of EV owners.
- 2. **User Interface:** The user interface should be intuitive and user-friendly, with a clean and modern design. It should provide easy access to key features such as station locator, availability status, and charging session management.
- 3. **Station Locator:** The app should have a comprehensive database of EV charging stations, with accurate location information and filtering options based on station type, availability, and amenities.
- 4. **Real-time Updates:** Provide real-time updates on station availability, including the number of available plugs, wait times, and predicted congestion levels, to help users plan their charging sessions effectively.
- 5. **Booking and Reservation:** Enable users to book and reserve charging slots at specific stations to minimize wait times and ensure a seamless charging experience.
- 6. **Charging Session Management:** Allow users to start and stop charging sessions, monitor charging progress, and receive notifications when charging is complete, all from within the app.

- 7. **Payment Integration:** Integrate a secure and convenient payment gateway to facilitate seamless transactions for charging services, supporting multiple payment methods for user convenience.
- 8. **User Profiles:** Enable users to create profiles, save favourite stations, and view their charging history and usage statistics to help them track their charging habits and expenses.
- 9. **Feedback and Ratings:** Allow users to provide feedback and ratings for charging stations, helping others make informed decisions and encouraging station operators to maintain high standards.

3.2 Characterization:

- 1. **Efficiency:** The app should be fast and responsive, providing users with real-time information and seamless interactions.
- 2. **Reliability:** The app should be reliable, with minimal downtime and accurate information to ensure a positive user experience.
- 3. **Scalability:** The app should be able to handle a large number of users and charging stations, with the ability to scale up as the user base grows.
- 4. **Security:** The app should prioritize user data security and privacy, implementing robust security measures to protect user information and transactions.
- 5. **Customization:** The app should allow users to customize their experience, such as setting preferences for station types, payment methods, and notifications.
- 6. **Accessibility:** The app should be accessible to all users, including those with disabilities, with features such as voice commands and screen reader compatibility.
- 7. **Innovation:** The app should incorporate innovative features and technologies to differentiate it from competitors and provide added value to users.

These specifications and characterizations will help guide the development of your app, ensuring that it meets the needs of users and stands out in the market.

4. Benchmarking Alternate Products

1. Plug Share:

- <u>Platform Availability</u>: Available on iOS and Android.
- <u>User Interface</u>: Simple and intuitive, with a focus on community-driven features.
- <u>Station Locator</u>: Comprehensive database, user-generated content.
- Real-time Updates: Availability, pricing, and status updates.

- <u>Booking and Reservation</u>: Limited booking options, primarily community-driven.
- Charging Session Management: Basic features, mostly manual.
- Payment Integration: Limited, relies on station-specific payment methods.
- <u>User Profiles</u>: Basic profiles, save favourites, track history.
- <u>Feedback and Ratings</u>: Extensive user reviews and ratings.
- Innovation: Community-driven approach, lacks advanced features.

Disadvantage: Not user friendly, charging station location issue, problem in trip planning

2. ChargePoint:

- <u>Platform Availability</u>: Available on iOS and Android.
- <u>User Interface</u>: Clean and modern design, easy to navigate.
- <u>Station Locator</u>: Extensive network, detailed station information.
- Real-time Updates: Availability, status, and pricing information.
- <u>Booking and Reservation</u>: Advanced reservation system.
- Charging Session Management: Start, stop, and monitor sessions.
- Payment Integration: Seamless payment options, including RFID cards.
- <u>User Profiles</u>: Detailed profiles, save favourites, track usage.
- Feedback and Ratings: User reviews and ratings for stations.
- Innovation: Constantly evolving features, focus on user experience.

Disadvantage: Not available in India

3. Tesla App:

- Platform Availability: Available for Tesla owners on iOS and Android.
- <u>User Interface</u>: Tailored for Tesla owners, integrates vehicle and charging information.
- <u>Station Locator</u>: Limited to Tesla's Supercharger network.
- Real-time Updates: Availability and status for Tesla Superchargers.
- Booking and Reservation: Tesla-specific reservation system.
- <u>Charging Session Management</u>: Integrates with Tesla vehicles for remote control.
- Payment Integration: Integrated with Tesla account for seamless payment.

- User Profiles: Detailed profiles for Tesla owners.
- Feedback and Ratings: Limited to Tesla's network, internal feedback system.

Disadvantage: Only for Tesla vehicle users etc.

4. ElectricPe App:

- Platform Availability: Available on iOS and Android.
- <u>User Interface</u>: Simple, modern and intuitive, with a focus on community-driven features.
- <u>Station Locator</u>: Comprehensive database, user-generated content.
- Real-time Updates: Availability, pricing, and status updates.
- <u>Booking and Reservation</u>: Limited booking options, primarily community-driven.
- <u>Charging Session Management</u>: Basic features, mostly manual.
- <u>Payment Integration</u>: Limited, relies on station-specific payment methods.
- <u>User Profiles</u>: Basic profiles, save favourites, track history.
- <u>Feedback and Ratings</u>: Extensive user reviews and ratings.
- Innovation: Community-driven approach, focus on user experience

Disadvantage: High Subscription charges, inaccurate information etc.

5. Applicable Regulations

For the "My JPEG" app, various government and environmental regulations imposed by countries may be applicable, especially concerning electric vehicle (EV) charging and environmental impact. Here are some key regulations to consider:

- 1. **EV Charging Infrastructure Regulations:** Countries may have regulations regarding the installation and operation of EV charging infrastructure, including safety standards and requirements for accessibility and availability.
- 2. **Energy Regulations:** Regulations related to energy usage and efficiency may apply, particularly concerning the sourcing of electricity for charging stations and the promotion of renewable energy sources.
- 3. **Environmental Impact Regulations:** Governments may impose regulations aimed at reducing the environmental impact of transportation, such as incentives for EV adoption, emissions standards, and pollution control measures.

- 4. **Data Protection and Privacy Regulations:** Compliance with data protection and privacy regulations, such as the General Data Protection Regulation (GDPR) in the EU or the California Consumer Privacy Act (CCPA) in the US, is essential when handling user data.
- 5. **Payment Processing Regulations:** Adherence to regulations and standards for processing payments securely, such as the Payment Card Industry Data Security Standard (PCI DSS), may be required.
- 6. **Accessibility Standards:** Compliance with accessibility standards, such as the Web Content Accessibility Guidelines (WCAG), to ensure the app is usable by people with disabilities.
- 7. **Competition and Consumer Protection Regulations:** Regulations related to fair competition and consumer protection, such as pricing transparency and customer
- 8. **EV Charging Infrastructure Regulations:** Countries may have regulations regarding the installation and operation of EV charging infrastructure, including safety standards and requirements for accessibility and availability.
- 9. **Energy Regulations:** Regulations related to energy usage and efficiency may apply, particularly concerning the sourcing of electricity for charging stations and the promotion of renewable energy sources.
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- 12. **Payment Processing Regulations:** Adherence to regulations and standards for processing payments securely, such as the Payment Card Industry Data Security Standard (PCI DSS), may be required.
- 13. Accessibility Standards: Compliance with accessibility standards, such as the Web Content Accessibility Guidelines (WCAG), to ensure the app is usable by people with disabilities.
- 14. **Competition and Consumer Protection Regulations:** Regulations related to fair competition and consumer protection, such as pricing transparency and customer rights, may apply.

6. Applicable Constraints

For the development and operation of the "My JPEG" app, several constraints related to budget, space, and expertise may apply. Here are some considerations for each:

1. Budget Constraints:

- **Development Costs:** Budget for app development, including software development, design, and testing.
- **Operating Costs:** Consider ongoing expenses such as server hosting, maintenance, and updates.
- Marketing and Promotion: Allocate budget for marketing and promotion to attract users to the app.
- Regulatory Compliance: Budget for legal and regulatory compliance, including data protection and payment processing regulations.

2. Space Constraints:

- **Server Space:** Ensure adequate server space to host the app and handle user data and transactions securely.
- Physical Space for Charging Stations: If the app includes information on physical charging stations, consider the space needed to store and display this data effectively.

3. Expertise Constraints:

- **Technical Expertise:** Ensure access to developers and designers with the necessary technical skills to develop and maintain the app.
- Regulatory and Legal Expertise: Consider consulting with legal and regulatory
 experts to ensure compliance with applicable regulations.
- Marketing and Promotion Expertise: If budget allows, consider hiring experts in marketing and promotion to effectively promote the app to users.

4. Other Constraints:

- **Time Constraints:** Consider the time required to develop, test, and launch the app, as well as ongoing maintenance and updates.
- **Resource Availability:** Ensure access to resources such as internet connectivity, hardware, and software tools necessary for app development and operation.

7. Business Model

1. Freemium Model:

- **Basic Features for Free:** Offer basic features such as station locator and real-time updates for free to attract users.
- **Premium Features:** Charge a subscription fee for access to premium features like advanced reservation system, personalized recommendations, and exclusive deals.

2. Pay-Per-Use Model:

- **Charging Session Fees:** Charge a small fee for each charging session initiated through the app.
- **Reservation Fees:** Charge a fee for users to reserve charging slots in advance.

3. Advertising Model:

- **In-App Advertising:** Partner with EV-related businesses or brands to display targeted ads within the app.
- **Sponsored Listings:** Charge charging station operators to feature their stations prominently in search results.

4. Partnerships and Affiliations:

- Partnerships with Charging Station Operators: Collaborate with charging station operators to promote their stations through the app, earning a commission for each session booked.
- **Affiliate Marketing:** Partner with EV-related businesses to promote their products or services to app users, earning a commission for each sale referred through the app.

5. Data Monetization:

• **Aggregate Data Sales:** Aggregate and anonymize user data to sell to third parties for market research and analytics purposes.

6. Subscription Services:

• **EV Owner Membership:** Offer a premium membership for EV owners, providing exclusive benefits such as discounted charging rates, priority booking, and premium customer support.

7. Value-Added Services:

- Route Planning Services: Offer premium route planning services tailored for EVs, considering factors such as charging station locations and battery range.
- Charging Station Management for Businesses: Provide businesses with tools to manage their charging stations, including monitoring usage, setting pricing, and handling payments.

8. White-Label Solutions:

• **Customized App Solutions:** Offer white-label versions of the app to businesses and organizations looking to create their own branded EV charging station app, charging a licensing fee for the software.

9. Referral Programs:

• **User Referrals:** Incentivize users to refer new users to the app, offering rewards such as credits or discounts on charging sessions.

10. Subscription Bundles:

• **EV Service Bundle:** Offer a subscription bundle that includes access to the app along with other EV-related services, such as insurance or maintenance.

11. Environmental Offsetting:

 Carbon Offsetting: Allow users to offset the carbon emissions from their charging sessions by purchasing carbon credits through the app, with a portion of the proceeds going towards environmental causes.

12. Crowdsourcing and Crowdfunding:

• **Crowdsourced Funding:** Allow users to contribute to the development and improvement of the app through crowdfunding campaigns, offering exclusive perks or early access to new features.

13. Loyalty Programs:

• **Charging Rewards:** Reward users for frequent charging sessions or for using specific charging stations, encouraging loyalty to the app and its partners.

14. Product Sales:

• **EV Accessories:** Offer a marketplace within the app for users to purchase EV accessories, with a portion of the proceeds going towards app development and maintenance.

15. Corporate Partnerships:

• **Employer Partnerships:** Partner with employers to offer the app as a benefit to their employees, potentially subsidizing the cost of premium features.

16. Government Subsidies and Incentives:

• **Government Partnerships:** Partner with government agencies to promote the app as part of EV adoption initiatives, potentially receiving subsidies or incentives for each user registered through the app.

17. Data Analysis and Insights:

 Data Analytics Services: Offer data analysis and insights to charging station operators and other stakeholders, based on anonymized user data collected through the app, for a fee.

18. Virtual Goods and Services:

• **Digital Merchandise:** Offer virtual goods or services within the app, such as digital stickers or badges, for users to purchase and use as a form of expression or status symbol within the app community.

19. Event Sponsorship and Promotion:

• **EV Events Promotion:** Partner with organizers of EV-related events to promote their events through the app, earning a fee for each event promoted.

20. Premium Support Services:

 Priority Customer Support: Offer premium customer support services to users, providing faster response times and dedicated support staff for a subscription fee.

Financial Equation for Pricing per kWh:

We'll use the following notation:

- **Y** = Future pricing per kWh over time.
- X= Initial pricing per kWh (as determined by our regression model).
- **r**= Growth rate of pricing per kWh.
- **t**= Time interval.

General Form of the Equation

Y=X+(1+r) ^t

Using the pricing per kWh derived from the regression model as the initial price, and assuming a growth rate r, we can formulate the equation.

Example Values

Let's assume:

The initial price (X) is obtained from the regression model. For illustration, let's take X=0.3 (this value should be replaced with the actual initial price from your data).

• Growth rate(r) is 3.2% per time interval.

Substituting the Values

<u>Y= 0.3</u> × (1 + 0.032) ^t

• X=0.3: Initial price of 0.3 per kWh.

r= =0.032: Growth rate of 3.2% per time interval. Full Financial Equation with Regression Model

Full Financial Equation with Regression Model

Combining with the linear regression model to determine the initial pricing (X):

X= 0.05 + 0.01. Number_of_chargers - 0.02. Average_Charging_Duration + 0.03. Average_Charges_per_Day + 0.04. Power_Output_kW + 0.02. User_Ratings - 0.01. Maintenance Incidents

So the final compound growth equation will be:

Y=(0.05 + 0.01. Number_of_Chargers - 0.02. Average_Charging_Duration + 0.03. Average_Charges_per_Day + 0.04. Power_Output_kW + 0.02. User_Ratings - 0.01. Maintenance Incidents) ×(1.032) ^t

This equation predicts the future pricing per kWh over time ttt considering both the initial price (derived from the regression model) and the compound growth rate.

MONETIZATION MODELS FOR AN EV CHARGING STATION APP



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8. Concept Generation

Based on our market research, we identified several key problems in the EV station app market:

- Limited Availability Information: Users often struggle to find up-to-date information about the availability of EV charging stations, leading to uncertainty and inconvenience.
- 2. **Complex Payment Systems:** Existing apps may have complex or cumbersome payment systems for accessing charging stations, which can deter users from using them.
- 3. **Inefficient Station Utilization:** Some charging stations may not be used efficiently, leading to long wait times or the inability to find a charging station when needed.

4. **Lack of Integration:** Existing apps may not integrate well with other services or platforms, making it difficult for users to plan their charging needs alongside other aspects of their journey.

To address these problems, the concept for the "My JPEG" app could focus on the following:

- 1. **Real-time Availability Updates:** Provide real-time updates on the availability of charging stations, allowing users to plan their routes more efficiently.
- 2. **Simplified Payment Process:** Implement a user-friendly payment process that allows users to easily pay for charging sessions within the app.
- 3. **Optimized Station Utilization:** Use data analytics to optimize the utilization of charging stations, ensuring that they are available when and where users need them most.
- 4. **Integration with Navigation Apps:** Integrate the app with popular navigation apps to allow users to plan their charging stops alongside their route planning.
- 5. **User Feedback and Ratings:** Allow users to provide feedback and ratings for charging stations, helping other users make informed decisions.
- 6. **Community Features:** Include features that allow users to share information and tips about charging stations, creating a community around EV charging.

By focusing on these key areas, the "My JPEG" app can provide a more user-friendly and efficient solution for EV owners, addressing the identified problems in the market.

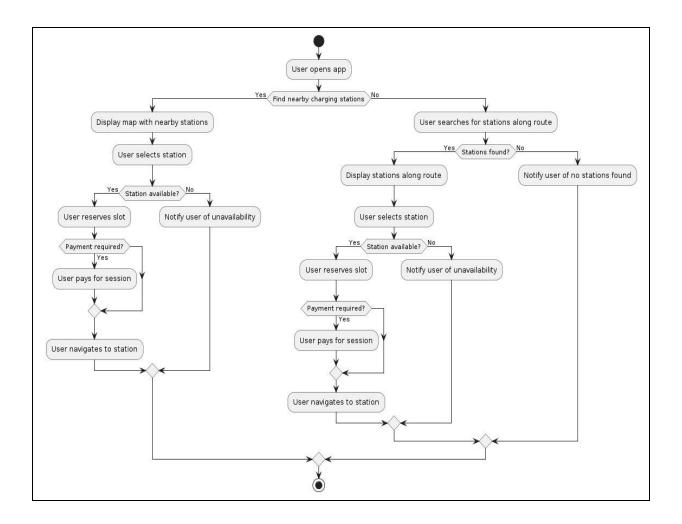


9. Concept Development

The "My JPEG" app is a comprehensive solution for electric vehicle (EV) owners, addressing key challenges in the EV charging station market. It provides real-time updates on the availability of charging stations, simplifies the payment process, and optimizes station utilization. The app integrates with navigation apps, allowing users to plan their charging stops alongside their routes. It also includes user feedback and community features, creating a supportive community around EV charging. Overall, the "My JPEG" app aims to enhance the EV ownership experience by providing a user-friendly and efficient solution for finding and accessing charging stations.



10. Final Product Prototype with Schematic Diagram



11. Product Details

➤ How does it work?

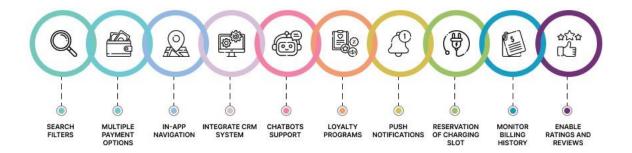
The "My JPEG" app is designed to simplify the process of finding and accessing electric vehicle (EV) charging stations. Here's how it works:

- <u>User Registration</u>: Users can create an account on the app, providing basic information such as name, email, and vehicle details.
- <u>Charging Station Search</u>: The app uses GPS to locate nearby charging stations.
 Users can also search for stations along a route or in a specific area.
- Real-time Availability: The app displays real-time information about the availability of charging stations, indicating whether a station is currently in use or available.
- Reservation: Users can reserve a charging slot at a station in advance, ensuring that a station is available when they arrive.

- <u>Charging Session</u>: When a user arrives at a reserved station, they can start the charging session through the app. The app monitors the charging progress and notifies the user when the session is complete.
- <u>Payment</u>: The app handles payment for the charging session, either through a prepaid account or by linking to a payment method.
- <u>Notifications</u>: Users receive notifications about the status of their charging session, including when the session is about to start, progress updates, and when the session is complete.
- <u>User Feedback</u>: Users can provide feedback and ratings for charging stations, helping other users make informed decisions.
- <u>Community Features</u>: The app includes community features, allowing users to share tips, recommendations, and information about charging stations with others.
- <u>Integration</u>: The app can integrate with navigation apps, allowing users to plan their charging stops alongside their route planning.

The "My JPEG" app aims to provide a convenient and user-friendly experience for EV owners, ensuring they can easily find and access charging stations whenever they need to charge their vehicles.

MOST IMPORTANT FEATURES OF A EV CHARGING APP



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Data Sources

The "My JPEG" app can use various data sources to provide users with accurate and up-to-date information about EV charging stations. Some of the key data sources include:

- Public Charging Networks: Accessing data from public charging networks provides information about the locations, availability, and pricing of charging stations operated by these networks.
- <u>Charging Station Operators</u>: Working directly with charging station operators allows the app to gather real-time information about the status of charging stations, including availability, maintenance schedules, and any issues affecting operation.
- <u>User Input:</u> Allowing users to report on the status of charging stations, such as availability and functionality, can provide valuable real-time data to supplement other sources.
- GPS and Location Services: Using GPS and location services, the app can identify the user's location and provide information about nearby charging stations.
- Maps and Navigation Services: Integrating with maps and navigation services allows the app to display charging stations along a user's route and provide directions to the selected station.
- Government Databases: Some governments provide databases of public charging stations, which can be used to supplement other data sources and ensure comprehensive coverage.
- <u>APIs and Data Providers</u>: Utilizing APIs and data providers that specialize in EV charging station data can provide a reliable and comprehensive source of information.

> Algorithms:

For developing an app for electric vehicle (EV) charging stations like "My JPEG" we would typically need the following types of algorithms:

- Routing Algorithms: Algorithms like Dijkstra's or A* can be used for this purpose.
- Real-time Data Processing Algorithms: For processing real-time data from charging stations, such as availability, pricing, and status. Apache Kafka Streams
- Reservation System Algorithms: Scheduling algorithms like First Come First Serve (FCFS) or Shortest Job Next (SJN) can be used.

- User Preference Algorithms: For analysing user preferences and behaviour to provide personalized recommendations for charging stations and routes.
 Recommendation algorithms like collaborative filtering or content-based filtering can be used.
- Notification System Algorithms: For managing and sending notifications to users about their charging sessions, station availability, and other relevant updates.
 Algorithms for message queuing and notification scheduling can be used.
- Feedback Analysis Algorithms: For analysing user feedback and ratings to improve the app's services and user experience. Sentiment analysis algorithms or machine learning models can be used for this purpose.
- Data Security Algorithms: For ensuring the security of user data, transactions, and communications within the app. Encryption algorithms like AES or RSA can be used to encrypt sensitive information.
- These algorithms, along with proper data structures and system architecture, can help make the "My JPEG" app efficient, user-friendly, and secure.

> Frameworks

For building this app with machine learning capabilities using Python, we can use the following frameworks and libraries:

- 1. **Frontend Framework:** Flask or Django can be used for both frontend and backend development. However, for larger applications, we might want to separate the frontend and backend. In that case, we can use Flask or Django for the backend and a frontend framework like React.js or Vue.js for the frontend.
- 2. **Backend Framework:** Flask or Django are popular choices for building the backend of our app. Flask is lightweight and more suitable for small to medium-sized applications, while Django is a full-featured framework that provides more out-of-the-box functionality.
- 3. **Database:** For the database, we can use SQLite, which is included with Python and is suitable for small applications. For larger applications, we might consider using PostgreSQL or MySQL.
- 4. **Machine Learning Libraries:** For implementing machine learning models, we can use libraries such as scikit-learn, TensorFlow, or PyTorch. Scikit-learn is a good choice for simpler models, while TensorFlow and PyTorch are more suitable for deep learning models
- 5. **Deployment**: we can deploy our app using platforms like Heroku, which supports Python applications. Heroku also provides add-ons for databases like PostgreSQL.

Software

To develop an EV station app with machine learning capabilities using Python, we'll need the following tools or packages:

- Integrated Development Environment (IDE)
- PyCharm
- Visual Studio Code
- Atom
- Sublime Text
- Flask or Django
- Machine Learning Libraries: necessary machine learning libraries, such as scikit-learn, TensorFlow, or PyTorch.
- Database: a database management system (DBMS) like SQLite, PostgreSQL, or MySQL.
- Deployment Platform: Heroku is a popular choice for deploying Flask and Django apps.
- Additional Tools: Depending on our needs, we may also need other tools such as Git for version control, a web browser for testing your app, and a text editor for writing code.

> Team required to develop:

To develop an EV station app with machine learning capabilities using Python, we would typically need the following team members:

- Project Manager
- Software Developers
- Machine Learning Engineer
- Database Administrator
- UI/UX Designer
- Quality Assurance (QA) Engineer
- DevOps Engineer
- Business Analyst
- Depending on the size and complexity of the project, some team members may have overlapping roles, and additional team members may be required.

12.Code Implementation

GitHub link: https://github.com/surabhi-priyadarshini/MY-JPEG-APP/blob/main/My_JPEG.ipynb

Google collab link: https://colab.research.google.com/drive/1_R2Fwp0jkMleeTbM-3_Gp5iLepledqjt#scrollTo=gHdrGDKwMe9I

12. Conclusion

The concept of the 'My JPEG' EV charging station app represents a promising solution to the growing demand for electric vehicle infrastructure. With its user-friendly interface, real-time charging station locator, and integrated booking system,' My JPEG' has the potential to revolutionize the way electric vehicle owners find and utilize charging stations.

While the app has not been developed yet, the concept offers numerous opportunities for future enhancement and expansion. Features such as predictive analytics for station availability, dynamic pricing models, and user feedback mechanisms could further enhance the app's functionality and user experience.

Overall, the 'My JPEG' app concept aligns with the goals of promoting electric vehicle adoption and supporting sustainable transportation solutions. With further development and implementation, 'My JPEG' could play a significant role in shaping the future of electric vehicle infrastructure.

13.External Search

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- 2. https://www.linkedin.com/pulse/ev-charging-station-market-size-share-trends-analysis-ashley-hancock-epozf/
- 3. https://www.kaggle.com/code/anshtanwar/caltech
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 - cCegQIABAA&oq=ev+station+charging+app+growth&gs lp=EgNpbWciHmV2IHN0YXR pb24gY2hhcmdpbmcgYXBwIGdyb3d0aEjYXlCIDFilVXAAeACQAQGYAY0GoAH1I6oBDD AuMTUuMy4yLjYtMbgBA8gBAPgBAYoCC2d3cy13aXotaW1nwglGEAAYCBgeiAYB&sclie nt=img&ei=NOhEZo-hFuS-4-
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