

# Event Management Platform

## Objective

The main goal of the MVP is to create a simple and functional event management platform that allows event organizers to create and promote events, while attendees can browse and register for those events.

## Core Features

### Feature 1

1. Event Discovery, Details, Creation, and Promotion (4 point)
  - **Landing Page:** Display a list of upcoming events.
  - **Event Browsing:** Customers can browse events, filter by category/location, and view event details.
  - **Search Bar:** Implement a search bar with debounce functionality.
  - **Responsiveness** is a must.
  - **Event Creation:** Event organizers can create events with details such as name, price, start date, end date, available seats, description, ticket types (if applicable), etc.
  - **Pricing:** Events can be free or paid. If paid, customers are charged accordingly.
  - **Promotions:** Event organizers can create limited-time voucher promotions specific to events, with defined start and end dates.
2. Event Transaction (4 point)
  - **Purchasing:** Customers can create transactions to buy event tickets.
  - **Transaction Statuses:** There are six statuses: waiting for payment, waiting for admin confirmation, done, rejected, expired and canceled.
  - **Payment Proof:** After choosing a ticket and checking out, a 2-hour countdown is shown for uploading the payment proof.
  - **Automatic Status Changes:** Transactions expire if no payment proof is uploaded within 2 hours. If the organizer doesn't accept/reject within 3 days, the transaction is automatically canceled.
  - **Rollbacks and Seat Restoration:** Points, vouchers, or coupons used in transactions are returned if the transaction is canceled or expired. Additionally, **available seats are restored.**

- **Point Usage:** Customers can use points to reduce payment amounts.(ex: event tickets price is IDR 300.000 while your points balance is 20.000, you could use it and get IDR 280.000 as the final price)
  - Uses only **IDR** in each prices of items
3. Event Reviews and Ratings (2 point)
- **Reviews:** Customers can leave reviews and ratings only after attending the event.
  - **Organizer Profile:** Show ratings and reviews on the event organizer's profile.

## Feature 2

1. User Authentication and Authorization (2 point)
- **Account Creation:** Customers must create an account to attend events.
  - **Roles:** There are two roles: customer and event organizer.
  - **Referral Registration:** Customers can register using a referral number.
  - **Referral Generation:** Referral numbers are generated for new users and cannot be changed.
  - **Role-Based Access:** Protect pages based on user roles.
2. Referral System, Profile, and Prizes (4 point)
- **Referral Rewards:** Users registering with a referral get a discount coupon, and the referrer gets 10,000 points.
  - **Points Expiration:** Points expire 3 months after being credited. (ex: today is 28 Dec 2023 and there are 3 people using your referral number, your balance would be 30.000 and available until 28 March 2024.
  - **Coupon Expiration:** Discount coupons after registering with referral are valid for 3 months.
  - **Profile:** Customers and Event organizers can edit their profiles, including updating their profile picture, changing their password, and resetting their password if forgotten.
3. Event Management Dashboard (4 point)
- **Dashboard Access:** Organizers can view and manage their events ( ex: edit events, etc.), transactions, and basic statistics.
  - **Statistics Visualization:** Display event data in graphical visualizations and reports by year, month, and day.
  - **Transaction Management:** Organizers can accept, reject, and view user payment proofs.
  - **Notification Emails:** Customers receive email notifications when their transaction is accepted or rejected. Ensure points/vouchers/coupons are **returned** if used in rejected transactions. Additionally, **available seats are restored**.

- **Attendee List:** Show the list of attendees for each event, including name, ticket quantity, and total price paid.

#### Clues:

1. **Voucher Discount:** This is provided by the event organizer and can only be used for specific events organized by them.
2. **Reward / Coupon Discount:** This is provided by the application system and can be used for all events.

#### Notes:

1. Protected route should implemented
2. Responsiveness is a must
3. Implement debounce on search bar
4. Implement popup dialog as confirmation on modify data
5. Create unit test on each flows
6. Handle if there are no items shows in filter or search
7. Implement SQL transaction on modify action that more than one action
8. Provide data that relevant to the projects

## References

<https://www.eventbrite.com/>

<https://www.eventbookings.com/explore-events/>

<https://www.tickettailor.com/discover/>

<https://www.viagogo.com/ww>

<https://www.loket.com/>