**Invoicing App Flow and Structure**

**1. Login Page**

* **Functionality**: User authentication with **email/password**
* **Flow**:
* User enters **Email** and **Password**.
* On successful login, redirect to the **Dashboard Page**.
* If login fails, display an error and prompt for re-entry   
    
    
    
    
  

**2. Registration Page**

* **Functionality**: User registration with **user name, email, password and confirm password**
* **Flow**:
* User enters **Username**, **Email**, **Password and Confirm Password** .
* On successful registration, redirect to the **Login Page**.
* If registration fails, display an error and prompt for re-entry.



**3. Dashboard Page**

* **Functionality**: Quick access to key metrics like **total invoices, overdue payments.**
* **Options Available**:
* **Create Invoice** (Navigates to Create Invoice Page).
* **Invoice History** (Navigates to Invoice History Page).
* **Reports** (Navigates to Reports Page).
* **Settings** (Navigates to Settings Page).
* **Flow**:
* User enters **Dashboard Page** after from **Login Page**.
* User has option to create customer, report and invoices.
* With Create Invoice button user will redirect to **CreateInvoice Page.**
* With Create customer button user will redirect to **CreateInvoice Page.**
* **Automated**: We can place a notification icon for reminders, which will display the automatically sent reminders notification to the admin.
* **Error Correction:**  Display a card consist of count of all invoices with errors. When we click on this section, it will navigate to a list of invoices that contain errors for correction.

**Core User Interactions and Page Connections**

**4. Create Invoice Page**

* **Functionality**: Input fields for customer info, items/services, amounts
* **User Actions**:
* **Enter Customer Details**: Input customer information such as name, contact, and billing address.
* **Add Invoice Items and Services**: Users select items from a list, input quantities, descriptions, and rates.
* **Apply Taxes and Amounts**: Fields for amounts with options to apply taxes.
* **Set Payment Requirements**: Optional settings for terms, due dates, and reminders.
* **Save or Send Invoice**:
* **Save**: Stores the invoice in **Invoice History** for future reference.
* **Send**: Allows immediate sending via email for quick delivery to the customer.
* **Post-Action**:
* Redirect to **Invoice History Page** to view invoice status or create a new invoice.
* **Error Correction:**  Before the **review page**, the user can fill in all the details, and we use machine algorithms to identify potential human errors. On the review page, we display a warning if any errors are found. If the user updates the details, they can either go back to correct them or save the invoice with the warning.

If the invoice is saved with a warning, it will appear in the "Invoices with Errors" section of the dashboard.

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**5. Invoice History Page**

* **Functionality**: Search/filter options for finding specific invoices
* **User Actions**:
* **View Invoice Details**: Select any invoice to see full details and actions.
* **Track Invoice Status**:
* View payment status: Pending, Paid, or Overdue.
* **Resend or Edit Invoice**: Allows editing or resending invoices if required.
* **Set Payment Reminders**: Users can configure reminders to notify them via email or SMS for upcoming or overdue payments.
* **Automated**: We can place a icon for payment status, which will display the automatically update according to payment process.
* **Error Correction:**  If an invoice has any warnings, we will highlight it for correction.

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**6. Reports Page**

* **Functionality**: Interactive charts showing cash flow trends and outstanding payments
* **User Actions**:
* **Select Report Type**: Filter reports by date range, invoice status, or customer.
* **Generate Reports**: Output formats available in PDF or CSV.
* **Share or Export**: Download reports for sharing or business records.
* **Return Option**:
* Navigate back to **Dashboard Page** after report generation.

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**7. Settings Page**

* **Functionality**: Options for customizing invoice templates and notification settings
* **User Actions**:
* **Manage Customer Information**:
* Add or update customer profiles, keeping an organized database of contact details and billing preferences.
* **Customize App Settings**:
* Modify notification preferences, payment defaults, and reminders.
* **Account Management**:
* Manage login credentials, including logout, password reset, or account switching.
* **Return Option**: Go back to the **Dashboard Page** for other actions.

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**8. Reminder Page**

* **Functionality**: On this page, we display all payment reminders that have already sent thought the notifications to customers. Overdue reminders will be sent if the payment is not received by the due date.
* **Flow**:
* When the invoice status changes to Overdue, the system triggers an automatic reminder to the customer.
* **Reminder Types**: Send overdue payment notifications via email/SMS.
* **Tracking**: Users can view the reminder history under the **Invoice History Page**.

**Example**:

* For an invoice with a due date of **30th November**, if no payment is made by **3rd December**, an overdue reminder will be sent. If the payment is still not received by **10th December**, a second reminder will be sent and show on this screen.

**Updated Use Cases for User Interaction**

* **Create Invoice**
* **User Interaction**: Users fill out an invoice form with customer details, item descriptions, and amounts.
* **Description**: Users can create invoices by entering essential information, selecting items from a list, and applying taxes.
* **Send Invoice**
* **User Interaction**: Users click a "Send" button to email the invoice directly to customers.
* **Description**: After creating an invoice, users can send it directly via email for immediate delivery.
* **Track Invoice Status**
* **User Interaction**: Users view a dashboard that shows the status of sent invoices (e.g., sent, viewed, paid).
* **Description**: The dashboard provides real-time updates on invoice statuses, aiding in accounts receivable management.
* **Set Payment Reminders**
* **User Interaction**: Users set reminders for upcoming payments or overdue invoices.
* **Description**: Automated reminders notify users via email or SMS when payments are due or overdue.
* **Generate Reports**
* **User Interaction**: Users access reporting tools to generate financial reports based on invoicing data.
* **Description**: Users can create custom reports to analyze cash flow, outstanding invoices, and payment trends.
* **Manage Customer Information**
* **User Interaction**: Users update customer profiles with contact details and billing preferences.
* **Description**: The app maintains an organized database of customer information, aiding quick access during invoicing.

**App Flow Summary**

* **Login Page** → **Dashboard Page**
* **Dashboard Page**: Access any core feature
* **Create Invoice Page** (Step-by-step invoice creation and payment setup) → **Invoice History Page** (Tracking & Sending).
* **Invoice History Page** (Manage and update invoices) → **Dashboard**.
* **Reports Page** (Generate and export reports) → **Dashboard**.
* **Settings Page** (Manage app preferences and customer info) → **Dashboard**.