# **UI/UX Design Specification**

## **1. General Design Principles**

* **Clean & Minimalist:** স্পষ্ট, পরিষ্কার লেআউট ব্যবহার করবে, যাতে ইউজার ফোকাস রাখতে পারে মূল কাজের উপর।
* **Responsive Design:** Bootstrap 5 ব্যবহার করে মোবাইল, ট্যাব ও ডেস্কটপ সকল ডিভাইসে সুন্দরভাবে কাজ করবে।
* **Consistent UI Elements:** বাটন, ফর্ম ফিল্ড, কার্ড, টেবিল ইত্যাদি সব জায়গায় এক রকম ডিজাইন ব্যবহার করা হবে।
* **Accessibility:** ARIA লেবেল, কনট্রাস্ট, ফন্ট সাইজ ইত্যাদি অ্যাক্সেসিবিলিটি বজায় রাখতে হবে।
* **Feedback & Validation:** ইউজারের কাজের প্রতিক্রিয়া (যেমন লোডিং স্পিনার, সাকসেস/এরর মেসেজ) স্পষ্ট থাকবে।

## **2. Color Palette & Typography**

| **Element** | **Color/Font** | **Notes** |
| --- | --- | --- |
| Primary Color | #0d6efd (Bootstrap Primary Blue) | Buttons, Links, Highlights |
| Secondary Color | #6c757d (Bootstrap Secondary Gray) | Secondary buttons |
| Success Color | #198754 | Success messages |
| Danger Color | #dc3545 | Error messages |
| Background Color | #f8f9fa (Light Gray) | Page background |
| Text Color | #212529 (Dark Gray / almost Black) | Main text |
| Font Family | 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif | Readable & clean |
| Headings | Bootstrap heading sizes, bold | Consistent typography |

## **3. Layout & Navigation**

### **3.1. Main Layout**

* **Header/Navbar:**
  + Fixed top
  + Contains logo, app name ("ViretaDev"), user profile dropdown (profile, settings, logout)
  + Responsive hamburger menu on smaller screens
* **Sidebar (Left):**
  + Collapsible vertical sidebar
  + Navigation links: Dashboard, Bookings, Rooms, Guests, Payments, Inventory, Employees, Payroll, Reports, Settings
  + Icons + text labels (Bootstrap icons or FontAwesome)
  + Highlight active menu item
* **Main Content Area:**
  + Scrollable area next to sidebar
  + Displays page-specific content, forms, tables, charts
* **Footer:**
  + Minimal footer with copyright text
  + Positioned bottom or sticky footer

## **4. Page Components**

### **4.1. Dashboard**

* Summary cards (small boxes) showing:  
  + Total Bookings
  + Available Rooms
  + Occupied Rooms
  + Total Revenue (Month)
* Recent Bookings table (paginated, sortable)
* Charts (using Chart.js): Booking trends, Revenue over time

### **4.2. Bookings Page**

* Table of bookings: columns for Booking ID, Guest Name, Room, Check-in/out dates, Status, Actions
* Search bar and filters (by date, status)
* Add Booking button (opens modal or separate form page)
* Actions: Edit, Cancel, View Details

### **4.3. Rooms Page**

* List of rooms in a card or table format
* Filters: by status (available/occupied/maintenance), room type
* Add Room button
* Each room shows: room number, type, status (colored badge), price, floor
* Edit and Delete actions

### **4.4. Guests Page**

* Table listing guests with name, phone, email, bookings count
* Search and filter options
* Add Guest form modal/page

### **4.5. Payments Page**

* Payments list with payment ID, booking ID, amount, method, status, date
* Filters by status and date range
* Payment status shown with colored badges
* Add Payment button (if manual payments needed)

### **4.6. Inventory Management**

* Category list and inventory items list views
* Add/Edit category and inventory item forms
* Stock quantity shown with color coding (e.g., red for low stock)
* Inventory transactions log

### **4.7. Employees & Payroll**

* Employee directory: Name, designation, phone, status badge
* Add/Edit employee form
* Payroll list by month with status and amount
* Generate Payroll button
* Attendance tracking calendar or list

## **5. Forms Design**

* Use Bootstrap form controls with validation feedback
* Clear labels aligned left or top
* Use placeholders where appropriate
* Show validation errors inline in red text
* Use Toastr or SweetAlert2 for success/error notifications
* Save/Cancel buttons at bottom right

## **6. Buttons & Icons**

* Primary buttons: btn btn-primary
* Secondary buttons: btn btn-secondary
* Danger buttons: btn btn-danger (for delete, cancel)
* Icon buttons: use Bootstrap Icons or FontAwesome with tooltips
* Consistent button sizing (btn-sm, btn-md) depending on context

## **7. Tables**

* Responsive tables with table-responsive wrapper
* Use table, table-striped, table-hover, table-bordered classes
* Pagination controls below table
* Sortable column headers
* Action buttons in last column (Edit, Delete, View)

## **8. Modals & Popups**

* Use Bootstrap modal components for create/edit forms
* Clear title and close button
* Form controls inside modal body
* Confirm modals for destructive actions (Delete, Cancel Booking)
* Use SweetAlert2 for nicer confirmation dialogs

## **9. Notifications & Alerts**

* Use Toastr for non-blocking toast notifications (success, error, info)
* Use Bootstrap Alerts for inline messages (dismissable)
* Color code alerts (green for success, red for error, yellow for warning)

## **10. Charts & Reports**

* Use Chart.js for rendering charts
* Responsive and interactive charts (hover tooltips)
* Common chart types: line, bar, pie
* Dashboard to show trends and summaries

## **11. User Profile & Settings**

* Profile page: show/edit personal info, change password
* Settings page: manage hotel info, roles & permissions, app configurations

## **12. Loading & Empty States**

* Show spinner or skeleton loaders during data fetch
* Friendly empty state messages with icons when no data available

## **13. Error Handling**

* Show user-friendly error pages for 404, 500 etc.
* Handle form errors gracefully with clear messages

# **Bonus: Example Color & UI Element Preview**

| **Element** | **Example Color / Style** |
| --- | --- |
| Primary Button | Blue background (#0d6efd), white text |
| Danger Button | Red background (#dc3545), white text |
| Badge (Available) | Green (#198754) |
| Badge (Occupied) | Red (#dc3545) |
| Badge (Pending) | Yellow (#ffc107) |

# **Summary**

এই স্পেসিফিকেশন অনুযায়ী তুমি React + Bootstrap 5 দিয়ে UI বানালে, সিস্টেম হবে ইউজার ফ্রেন্ডলি, আধুনিক, এবং রেস্পন্সিভ। ইউজার সহজে বুঝতে পারবে কোথায় কী আছে এবং কাজ করবে দ্রুত ও নির্ভুলভাবে।