**Heart Disease Risk Prediction System**,

**Heart Disease Risk Prediction System – All Modules**

1. **Disease Prediction (6 Different Models)**
   * Uses Machine Learning (Xtreme Gradient Boosting) to predict heart disease risk (low, medium, high).
   * Analyzes patient data like age, blood pressure, cholesterol, etc.
   * Provides personalized insights for early diagnosis and better treatment planning.
2. **Risk Beat – Diagnosis (Chatbot System)**
   * A custom chatbot to analyze symptoms, predict diseases, and suggest treatments.
   * Helps users identify possible heart conditions and their remedies.
3. **Doctor Appointment Module**
   * Users can search for doctors by name, specialization, and location.
   * Displays doctor profiles with qualifications, experience, and availability.
   * Supports both in-person and virtual consultations.
4. **Lifestyle Assessment**
   * Users input lifestyle habits (age, sleep duration, physical activity, stress, BMI, blood pressure, etc.).
   * Predicts initial heart disease risk based on daily habits.
5. **Fitness Tracker**
   * Tracks daily calories, food intake, and exercise activity.
   * Helps users maintain heart-healthy fitness goals.
6. **Health Deals and Checkup Alerts**
   * Notifies users about free health checkups and medicine discounts.
   * Promotes preventive healthcare awareness.
7. **View Diseases**
   * Provides detailed information about various heart diseases, symptoms, causes, and treatments.
   * Helps users and doctors make informed decisions.
8. **Role-Based Logins (Admin, User, Doctor)**
   * **Admin**: Manages system users and data.
   * **Doctor**: Views patient predictions and provides medical advice.
   * **User**: Submits health data and views predictions.
9. **Search Your Doctor**
   * Allows users to find heart specialists based on location and expertise.
   * Displays contact details and consultation availability.
10. **Community Module**

* Platform for users, doctors, and professionals to interact.
* Users can share experiences, ask health-related questions, and receive peer support.

1. **Feedback System**

* Collects user and doctor feedback on system functionality and accuracy.
* Helps improve the user experience and prediction accuracy.

This arrangement places **prediction, diagnosis, and medical consultation features** at the top, followed by **lifestyle management and user engagement modules** for a well-rounded system.