**Features of Global Compass:  
1.Student:**

**🔹 Key Features**

**1. User Profile & Preferences**

* Basic details: Name, Age, Email, etc.
* Academic info: GPA/CGPA, Major, GRE/TOEFL/IELTS scores.
* Budget range (low/medium/high).
* Preferred study destination (continent/region/country).
* Field of study / specialization.
* Language preference (English/French/German etc.).
* Scholarship requirement (Yes/No).

**2. University & Country Recommendation**

* Recommend **best-fit countries** for the student’s field of study.
* Suggest **top universities** matching GPA, test scores, and budget.
* Show details:
  + Acceptance rate
  + Tuition fees
  + Ranking (global & subject-wise)
  + Application deadlines
  + Available scholarships

**3. Comparison & Shortlisting**

* Save universities to a **shortlist**.
* Compare multiple universities on:
  + Tuition fee
  + Rankings
  + Scholarship availability
  + Living cost
  + Application difficulty

**4. Backend Enhancements**

* **Database (PostgreSQL):**
  + Users, Universities, Countries, Shortlists, Scholarships.
* **ML Models:**
  + Rule-based filtering (initial phase).
  + ML-based recommendations (later phase):
    - Match students to universities using **content-based filtering**.
    - Predict admission chances (logistic regression/classification).

**2.Professional:**

🔹 Key Features

1. User Profile
   * Education background.
   * Work experience, industry, and role.
   * Expected salary & cost of living tolerance.
   * Visa/work permit requirements.
   * Language preference & cultural adaptability.
2. Country Recommendation
   * Suggest countries with high job demand in their field.
   * Show average salary, work-life balance, cost of living index.
   * Immigration and visa pathways (work visa, PR, etc.).
   * Healthcare, social benefits, and safety.
3. Professional Networking
   * Integration with LinkedIn APIs or job boards (Indeed, Glassdoor).
   * Recommend job openings in shortlisted countries.
4. AI/ML Features
   * Predict best-fit country for career growth.
   * Match user’s skillset to global demand trends.
   * Salary prediction & cost-benefit analysis.
5. Additional Expansions
   * For retirees: countries with best retirement benefits & lifestyle.
   * For investors/entrepreneurs: business-friendly countries, startup visa programs.

**3.Tourist:**

Key Features

1. User Profile & Preferences
   * Type of trip (Adventure, Luxury, Budget, Cultural, Nature, Family, Honeymoon, Solo).
   * Duration of stay.
   * Budget range.
   * Preferred climate (snow, beach, temperate, tropical, etc.).
   * Food preferences (vegetarian, vegan, halal, local cuisine focus).
   * Language preference.
2. Country & City Recommendation
   * Suggest best countries and cities matching preferences.
   * Provide must-visit places, itineraries, and travel tips.
   * Show seasonal suitability (best months to visit).
3. Dynamic Data Integration
   * Flight cost estimates (via APIs).
   * Hotel/accommodation options.
   * Safety index, visa requirements, COVID/travel alerts.
4. Interactive Features
   * Shortlist destinations and compare.
   * AI chatbot for travel guidance (“Suggest me a 5-day trip in Europe under ₹80,000”).
   * Generate day-by-day itinerary automatically.
5. Backend Enhancements
   * PostgreSQL database to store destinations, travel packages, user itineraries.
   * Machine Learning: recommend destinations using collaborative filtering (similar travelers).