

# ***MAD II HOME SERVICE APPLICATION***

## **Project Overview**

This project is a service marketplace platform that connects customers with professionals offering various services. Customers can browse services, book appointments, and rate professionals. Professionals can manage their service requests and profiles. The platform includes an admin interface for managing users and services.

## **API Overview**

### Admin APIs:

AdminAPI: Manage services by creating, updating, and retrieving service details.

ProfessionalManagement: Admin can view and update the status of professionals.

CustomerManagement: Admin can view and update the status of customers.

SummaryAPI: Provides a summary of service categories, professional statuses, top professionals, and rating distributions.

AdminProfessionalManagement: Approve or reject professional applications and send status update emails.

### User APIs:

ServiceListResource: Retrieve a list of available services or a specific service.

CreateServiceRequest: Allows customers to create a new service request.

CustomerServiceRequests: Retrieve all service requests for a customer.

RateService: Submit a rating for a completed service request.

UserProfile: Retrieve and update customer profile information.

UserSummary: Provides a summary of a customer's service requests by category and status.

### Professional APIs:

ProfessionalSignup: Register a new professional account.

ProfessionalProfile: Retrieve and update professional profile information.

ProfessionalActiveServices: Retrieve active service requests for a professional.

ProfessionalRequests: Manage service requests assigned to a professional.

ProfessionalSummary: Provides a summary of a professional's service requests, earnings, and ratings.

ProfessionalStats: Retrieve overall rating and total earnings for a professional.

This API structure supports the core functionalities of the service marketplace, enabling seamless interactions between customers, professionals, and administrators. Now, use the actual, `api.add_resource` and give one line explanation, like , `/userloginAPI` - for login etc

## **API Endpoints Overview**

### Admin Endpoints:

`'/admin/services'` - Manage (CRUD) service categories and details

`'/admin/professionals'` - View and manage all professional accounts

`'/admin/professionals/<int:professional_id>/status'` - Approve/reject professional applications

`'/admin/requests'` - View and manage all service requests

`'/admin/requests/completed'` - View completed service requests

`'/admin/requests/<int:request_id>'` - Manage specific service request

### User/Customer Endpoints:

`'/services'` - Browse all available services

`'/services/<int:service_id>'` - View specific service details

`'/service-requests'` - Create new service request

`'/customer/service-requests'` - View customer's service requests

'/customer/service-requests/<int:request\_id>/cancel' - Cancel a service request

'/customer/service-requests/<int:request\_id>/rate' - Rate a completed service

'/upprofile' - View/update customer profile

'/user/summary' - View customer's service history and statistics

### Professional Endpoints:

'/professional/signup' - Register *as* a new professional

'/professional/service-requests' - View assigned service requests

'/professional/service-requests/<int:request\_id>/<string:action>' - Accept/reject/complete requests

'/professional/profile' - View/update professional profile

'/professional/active-services' - View current active service requests

'/professional/requests' - View all service request history

'/professional/requests/<int:request\_id>/<string:action>' - Manage specific request

'/professional/summary' - View earnings and service statistics

'/professional/stats' - View overall rating and total earnings

Each endpoint follows RESTful conventions and includes appropriate authentication and authorization checks. The endpoints are designed to provide a comprehensive service marketplace platform connecting customers with professionals while giving administrators oversight and control.

*By: Shreya Kumari, 23f2003785*