WATERAIN

Abstract

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**WATER BANK**

The Water Bank Website is a comprehensive platform designed to address water-related challenges by providing a digital ecosystem that facilitates efficient water supply management, water resource cleaning initiatives, product sale and user awareness.The concept of a water bank holds significant relevance in addressing a variety of water-related challenges faced by communities and regions around the world. Its relevance is underscored by the increasing need for sustainable water resource management and conservation.

Water resource cleaning refers to the process of removing pollutants, contaminants, and debris from water bodies such as wells, canals , rivers, lakes, ponds, and oceans. This practice is crucial for maintaining the quality of water sources, protecting ecosystems, ensuring safe drinking water, and preserving aquatic life. Water resource cleaning involves various methods and techniques aimed at reducing pollution and restoring the health of water bodies.The Water Bank features a marketplace where users can browse and purchase state-of-the-art water purifying equipment, filters, and related products. Personalized recommendations based on user preferences enhance the shopping experience.

The Water Bank offers a diverse range of educational resources, including webinars, workshops, and interactive modules. These resources empower users with knowledge about water conservation, sustainable practices, and pollution prevention.This platform employs cutting-edge sensor technology and real- time data analysis to monitor pollution levels in water bodies. Users can access up-to-date pollution data, enabling informed decisions and targeted cleanup initiatives.We can Utilize machine learning algorithms to predict water demand based on historical data, weather conditions, and user patterns. This can help optimize water delivery schedules and ensure that adequate supply is available. Additionally, we can use predictive analytics to anticipate potential supply disruptions and take proactive measures.

# Features :

* Water supply management
* Water resource cleaning
* Awareness
* Product store
* Community Engagement

# Modules

* Admin
* User
* Worker
* Workmanager
* Vendor
* Delivery boy

# Admin

* User management
* Manage content for awareness
* Control workers status
* Control user status
* View details and status of order
* Subscription management
* Remainder and notification
* Scheduled remainders
* Role based permissions
* Pollution detecting
* Implement emergency services
* Manage feedback and rating
* Water quality reporting

# User

* Create profile
* Water supply request
* Access and download awareness resources
* Water resource cleaning request
* View history
* Feedback and ratings
* Personalized recommendations
* Subscription request and management
* Emergency service request
* Interact with workers
* View and order items
* Add to cart
* Add to wishlist
* Track delivery
* Confirm delivery
* Edit profile

# Worker

* Create and update worker profile
* Water supply management
* Resource cleaning
* Apply leave and view leave status
* Confirm work completion and assign amount
* Interactive dashboard
* Attendance and working hour tracking
* Performance metrics and
* Emergency response coordination

Workmanager

* Add worker
* Assign work to workers including work details
* Manage leave application
* Confirm order
* Prioritize task
* Performance tracking
* Product management
* Performance recognition incentives
* Task deadline management
* Customer interaction
* Salary management
* Loyalty management

Vendor

* Create Profile
* Manage Product listing
* View Orders
* Fulfill Order
* Collaborate with workers
* Add product with details
* View feedback and ratings
* Integrate with product store
* Communicate with delivery boy

Delivery boy

* Profile management
* Order tracking
* Delivery confirmation
* Customer interaction
* order priority
* Proof of delivery
* Automated notifications
* Collaboration with work manager

**Backend : Python django**

**Frontend : HTML / CSS**