

The logo features a central white circle with a dashed blue border. This circle is surrounded by a dynamic splash of white water droplets and bubbles. The entire composition is set against a solid teal background, which is further decorated with several diagonal light blue lines in the corners.

Hail Hydra

Water Conservation and
Distribution System

Overview



Rainwater harvesting is collecting and storing the rainwater into storage tanks/reserves instead of letting it run off.



The more the surface area of the roof to collect water, the more can be harvested. Where do we get large roofs? - Housing societies, malls, corporate industry buildings! All of them can be used to harvest rainwater and make it available to meet the water needs of the city!



For that, we need a water conservation and distribution system!

Why do we need the proposed system?



11 of 20 biggest cities in the country are facing extreme risk of scarcity, according to Water Stress Index. In India only 8% of rainfall is being harvested and utilized.



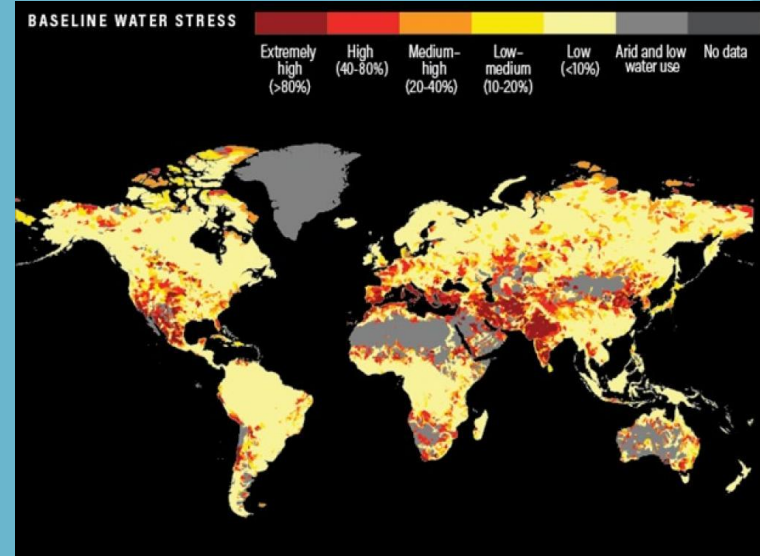
This analysis by the world resources institute shows India at extreme risk of water stress.



The sub-national Water Stress Index, formulated by London-based risk analytics firm Verisk Maplecroft, lists India as the 46th highest risk country in the world



Majority of common people are not benefited from RWH, despite having water scarcity problem. Common people does not have facility to book/order water from their own place.



Some Facts!

According to the index, Delhi, Chennai, Bengaluru, Hyderabad, Nashik, Jaipur, Ahmedabad and Indore are among the cities facing 'extreme risk'.



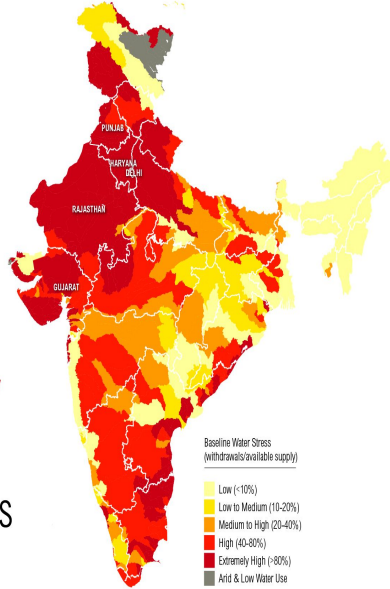
In the next 3 decades,
demand for water in
cities is projected to
increase by

50-70%



54%

of India
Faces
**High to
Extremely
High**
Water Stress



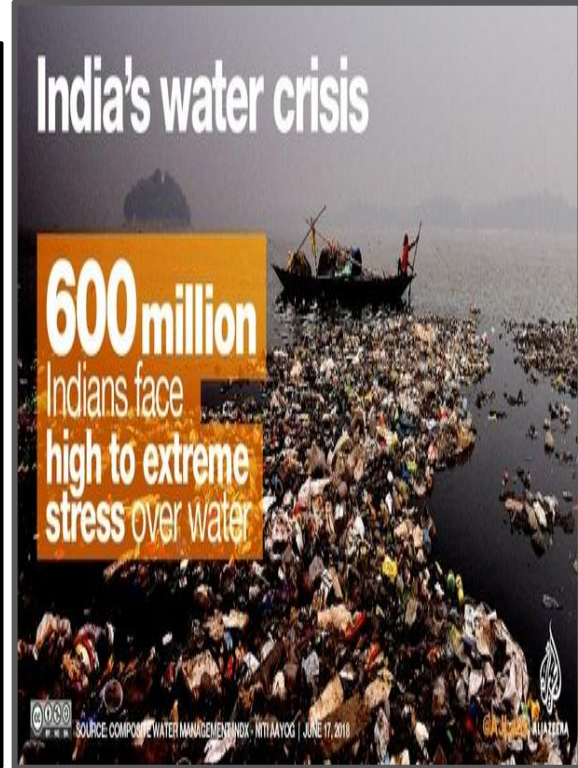
www.indiawatertool.in

 WORLD RESOURCES INSTITUTE

**Over 600 million Indians face
high stress over water!**

India's water crisis

600 million
Indians face
high to extreme
stress over water



SOURCE: COMPOSITE WATER MANAGEMENT INDEX - NITI AAYOG | JUNE 17, 2018

 ALJAZEERA

Our Services



One Tap Water Booking

User can easily book the water by signing into the website.

Option A



Easily access to all Water Provider Services

A registration can activate an industry to our portal.

Option B



Apply for Subsidy

You can easily apply for the subsidy of rain water harvesting plant.

Option C



Filling Stations/ Overhead water tanks/ ESR(Escalated Storage Reservoir)

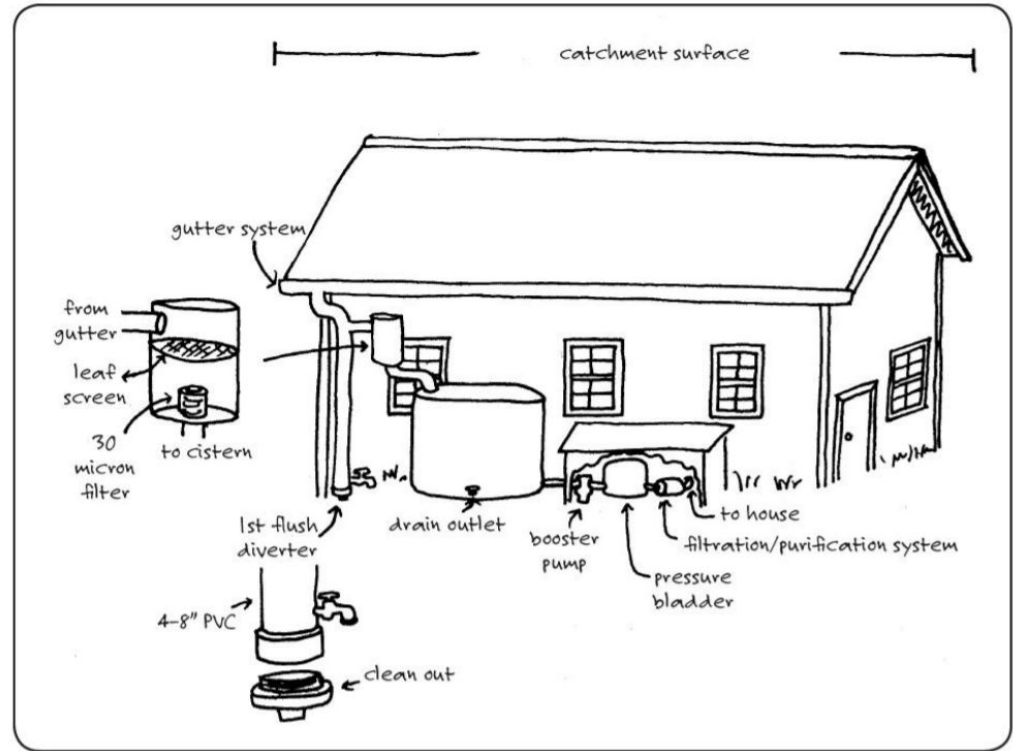
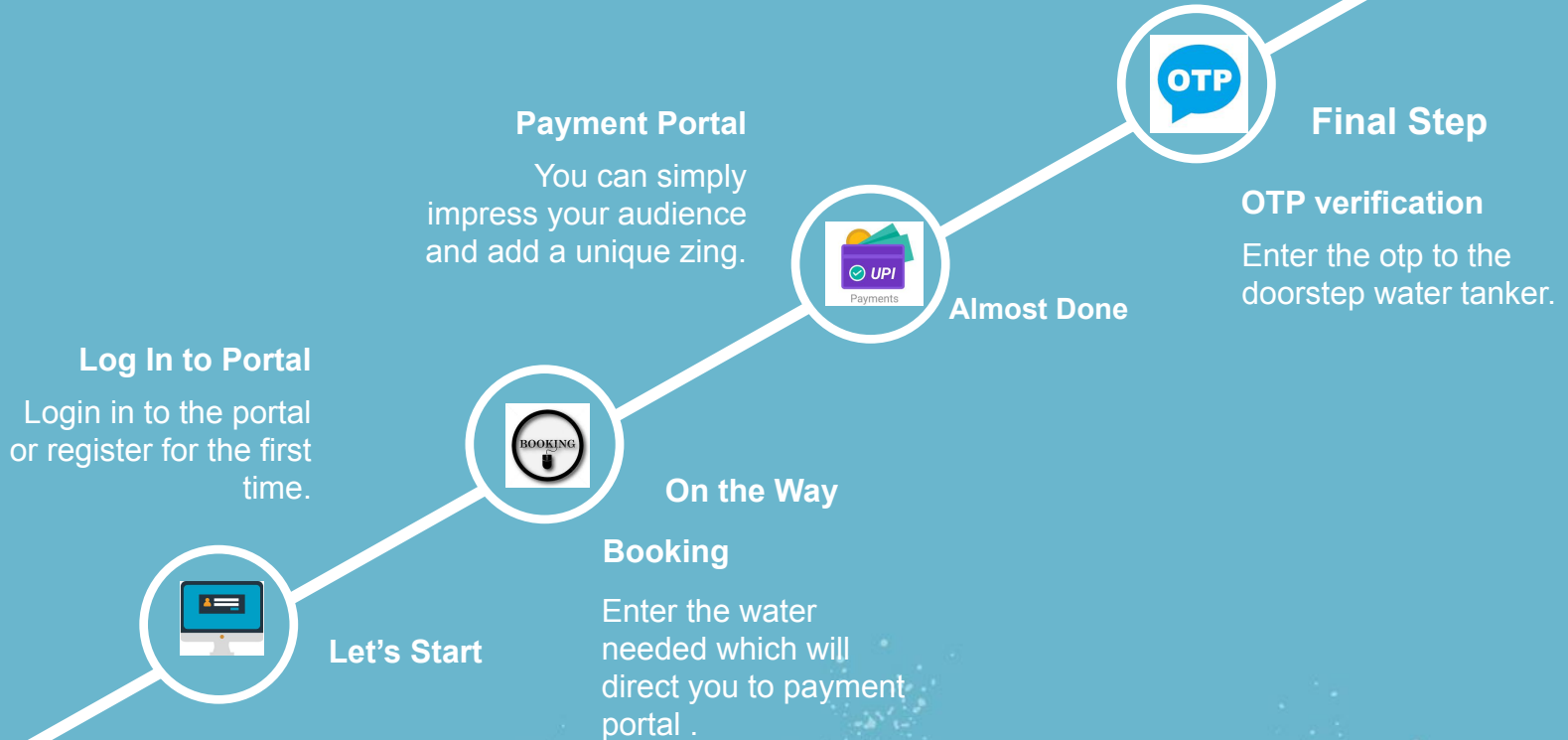


FIG. 8.2. Typical components of a whole-house rainwater harvesting system.

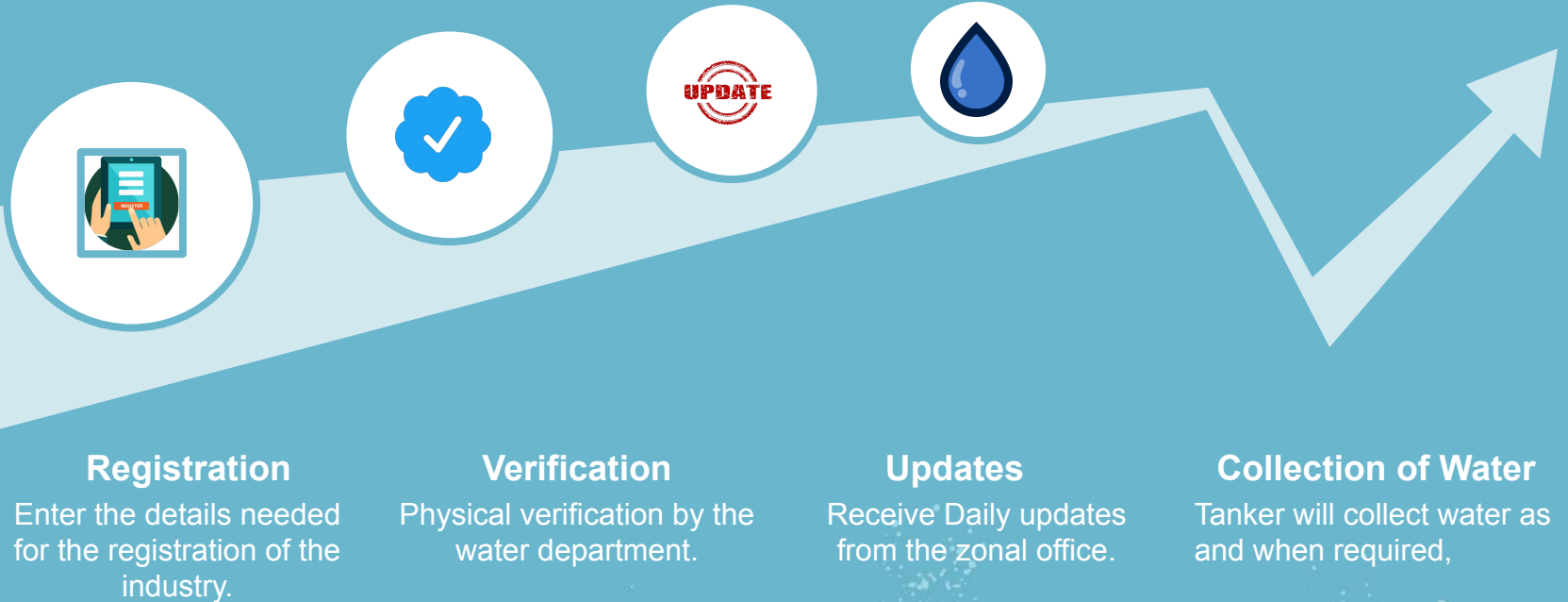
Rain Water Harvesting (RWH) plant

Flow of Control for User

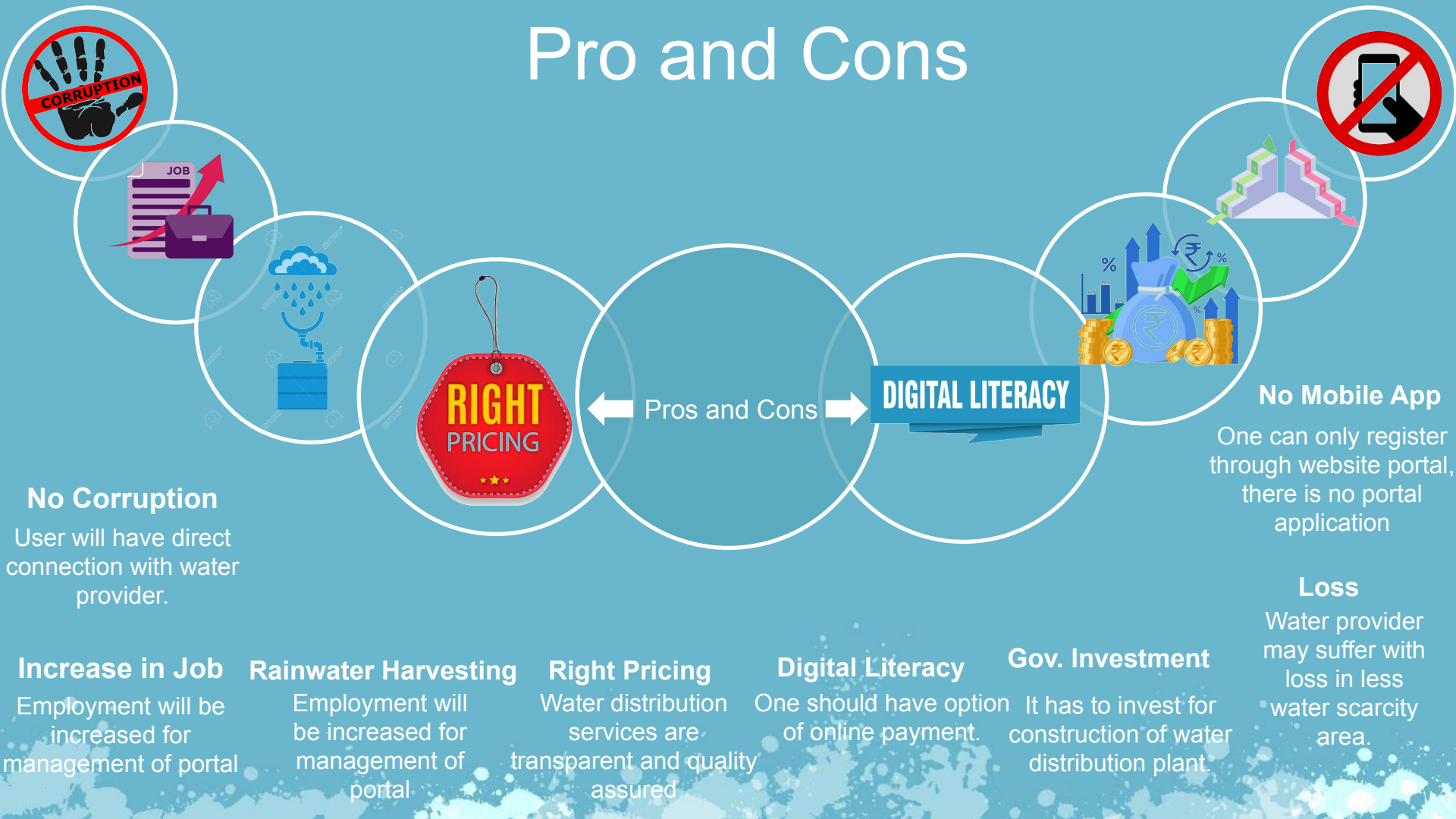


Institute Flow

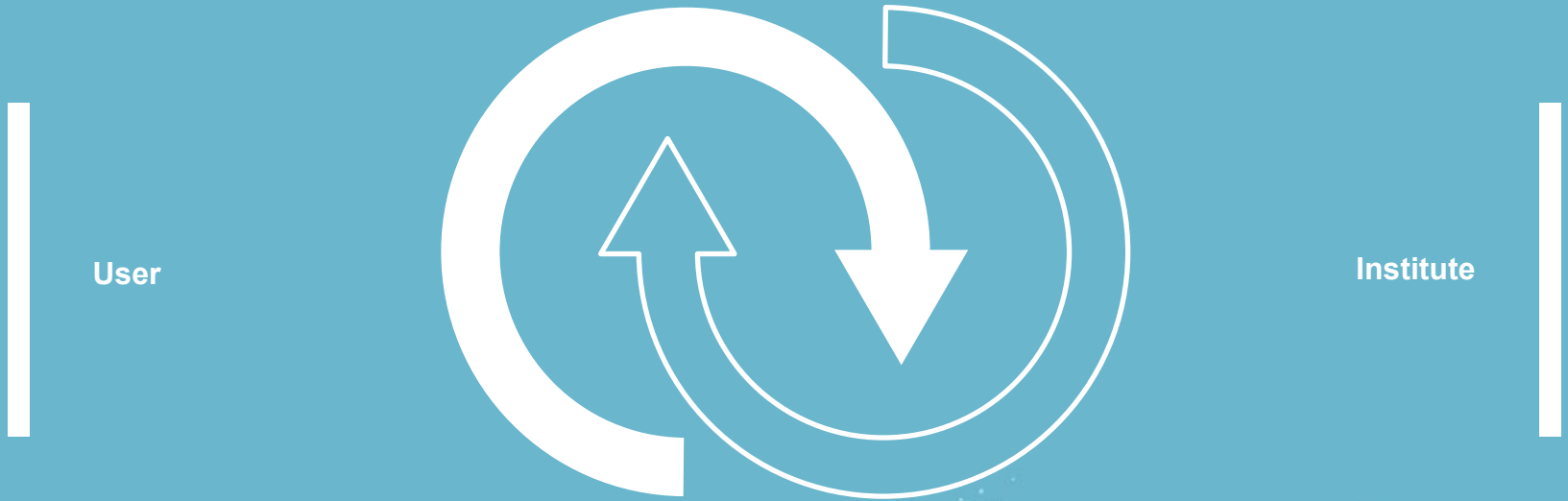
Institute means School, College, Government Offices, Corporate Sectors, Industries, Private Sectors and all the different structures which can store water



Pro and Cons



Background Work



Technology Stack



Water Conservation and Distribution System

We tried to make our portal transparent and feasible for all type of users. Following the tools and technologies we had used in our web portal.



Front End

HTML
CSS
JavaScript
Bootstrap



BackEnd

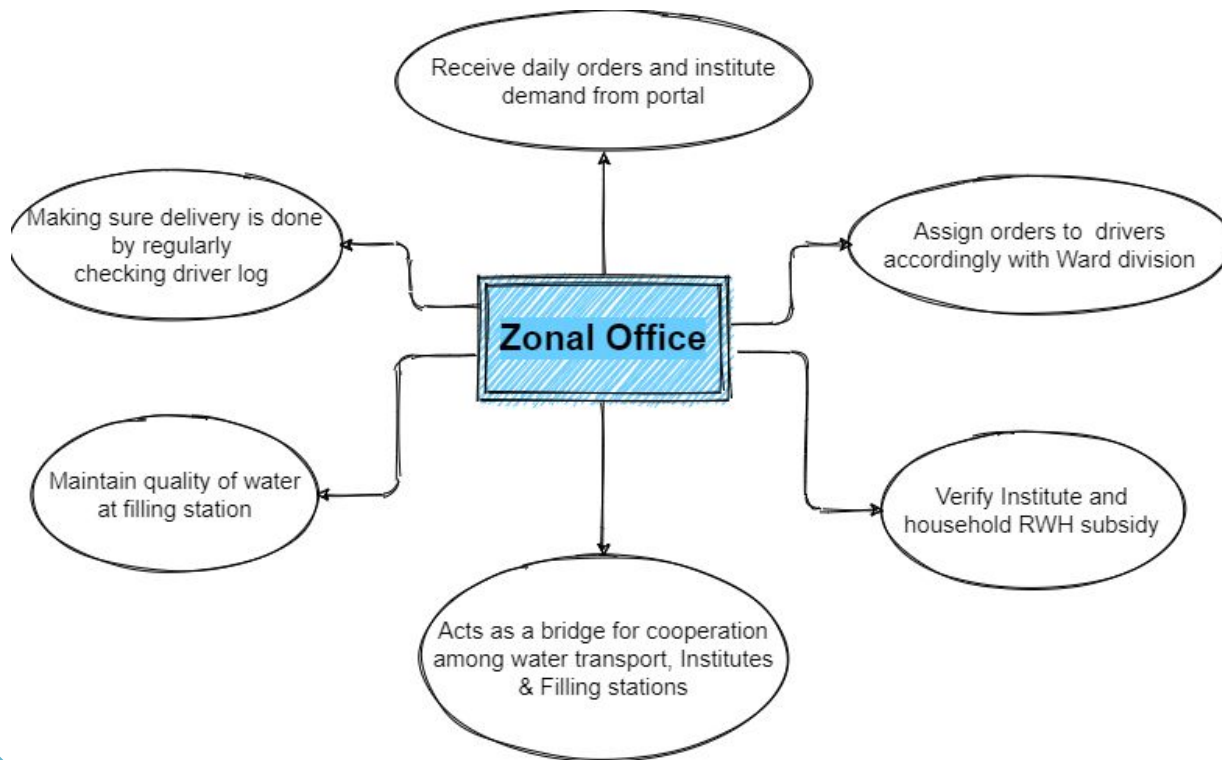
PHP
Mysql



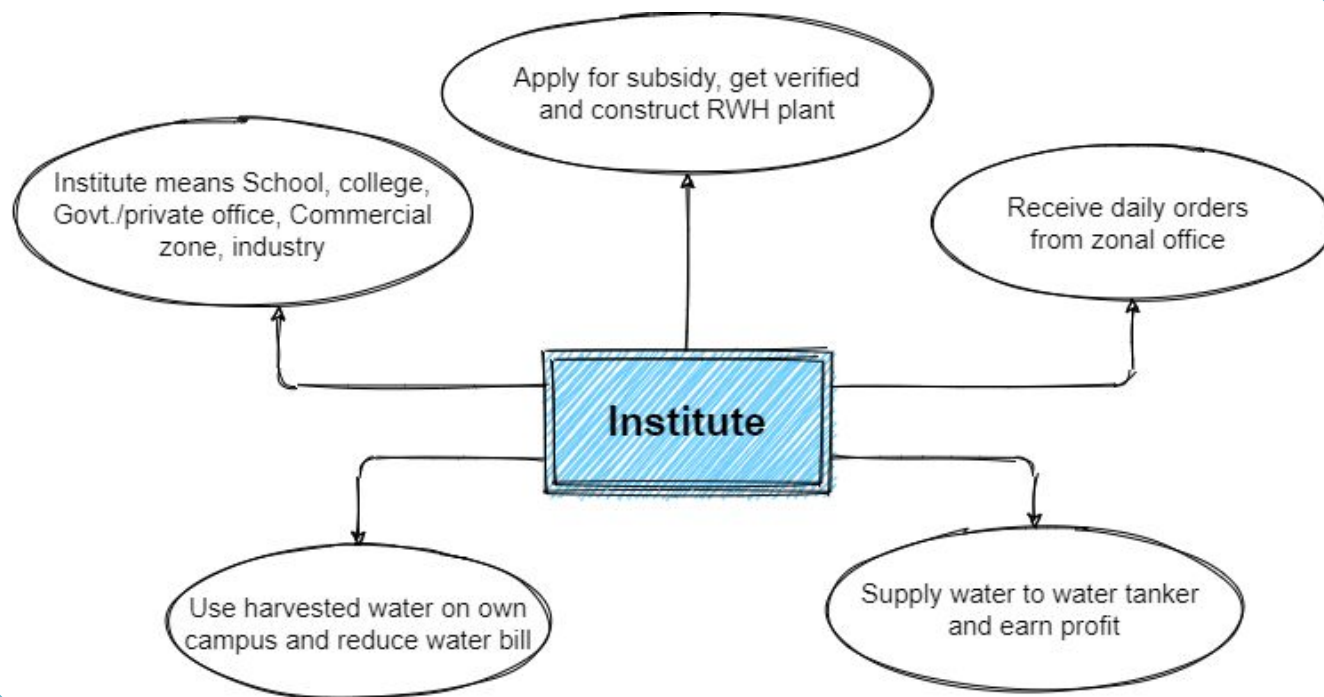
Tools

Visual Studio Code
PhpMyAdmin
Github
Sb Admin 2
Razor Pay Api

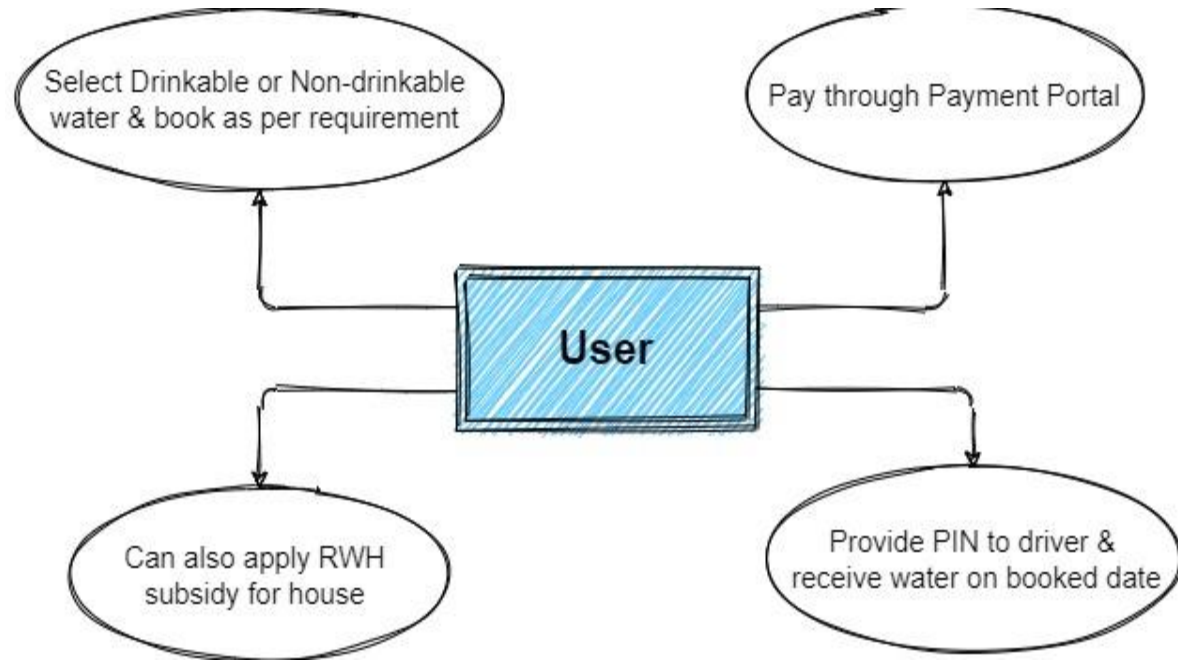
Role of Zonal Office



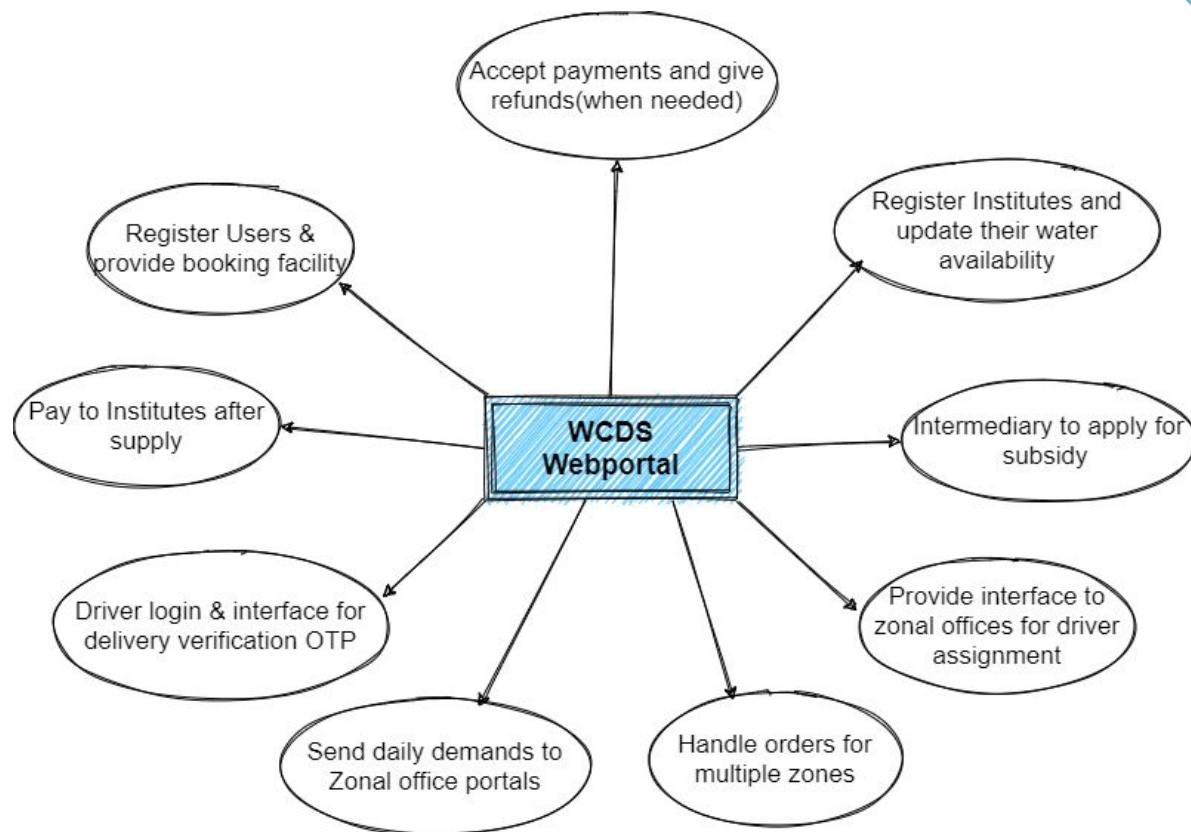
Role of Institute



Role of User



WCDS Portal













Day 2

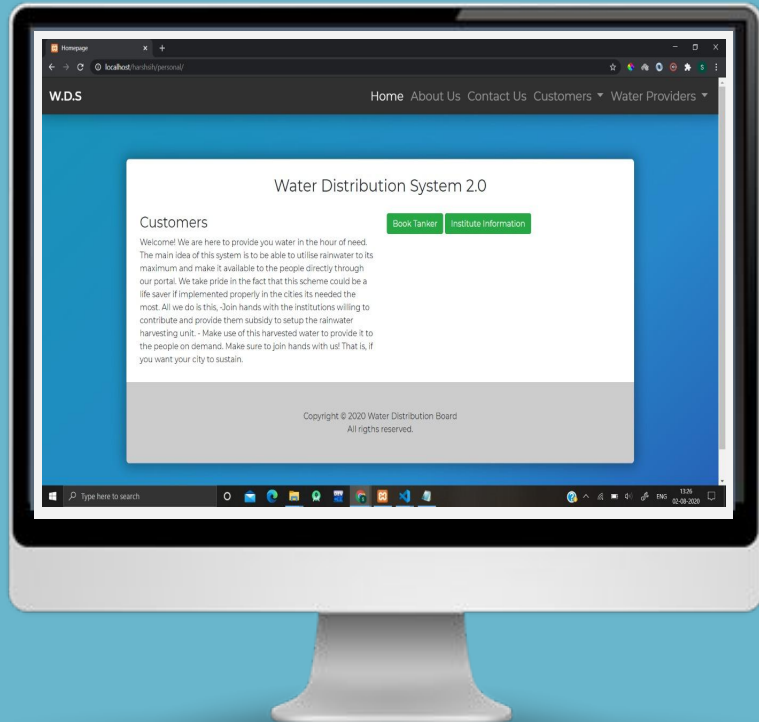
Hail_Hydra

Water Conservation and Distribution
System

Evaluation Takeaways from Mentoring and Evaluation Round

-  Special Room for Construction Sites
-  Repeated Cancellation and Refund System
-  Easy and flexible for User
-  Proper Flow Control of our portal
-  Feedback and Rating System
-  Priority Queue for the User
-  Clean and Transparent System
-  One min pitching and Proper presentation skills

More Towards User Friendly



1) **FeedBack System** : A proper feedback will be taken just after the delivery and also a feedback form will be there on the website for any other queries.

2) **Emergencies Supply**: A particular amount of water will always be stored for emergency purposes.

3) **Current Availability Status**: While booking, current available water in that zone will be visible to user.

4) **More Flexibility during Registration**: User finding difficulty in meter connection can provide his/her house number instead of it.

5) **Construction or Other purposes**: User (those who don't have meter connection or house number) can submit official documents as a proof of construction work or other and fill a form on the website.

Our Next Targets



Focusing to introduce features which will attract more users. Some cases like:

1) Repeated cancellation from zonal office.

We have thought regarding it that if for any means its order get canceled, he will get an option to reschedule the booking on any of the next three days. This will make sure that his delivery will be fulfilled within 3 days.

2) Only web portal limits our users.



Adding a verification step at the industry site also. A otp will be send to the industry during the distribution.

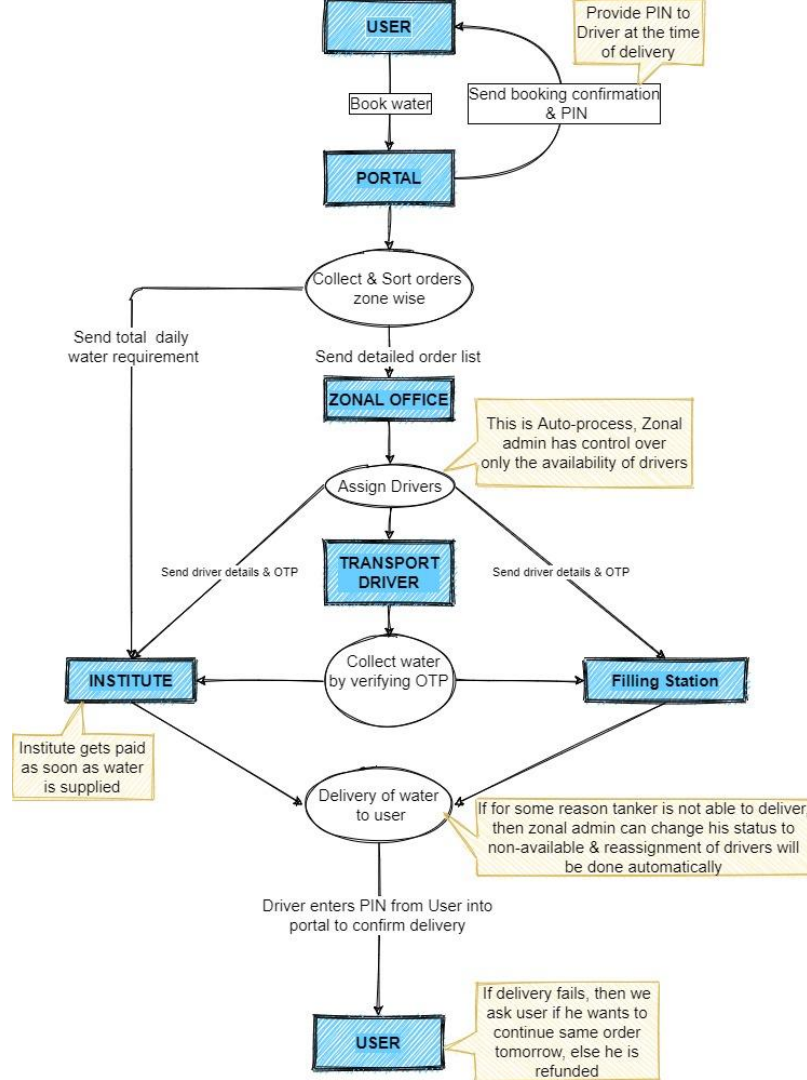


Till now we are facing a problem to introduce a payment portal but we have figured out and will implement it.



Finally, we will have domain of our website so that everyone can test it. We will do our best to add more features in our portal.

Project Workflow





Welcome Back!

Enter Email Address...

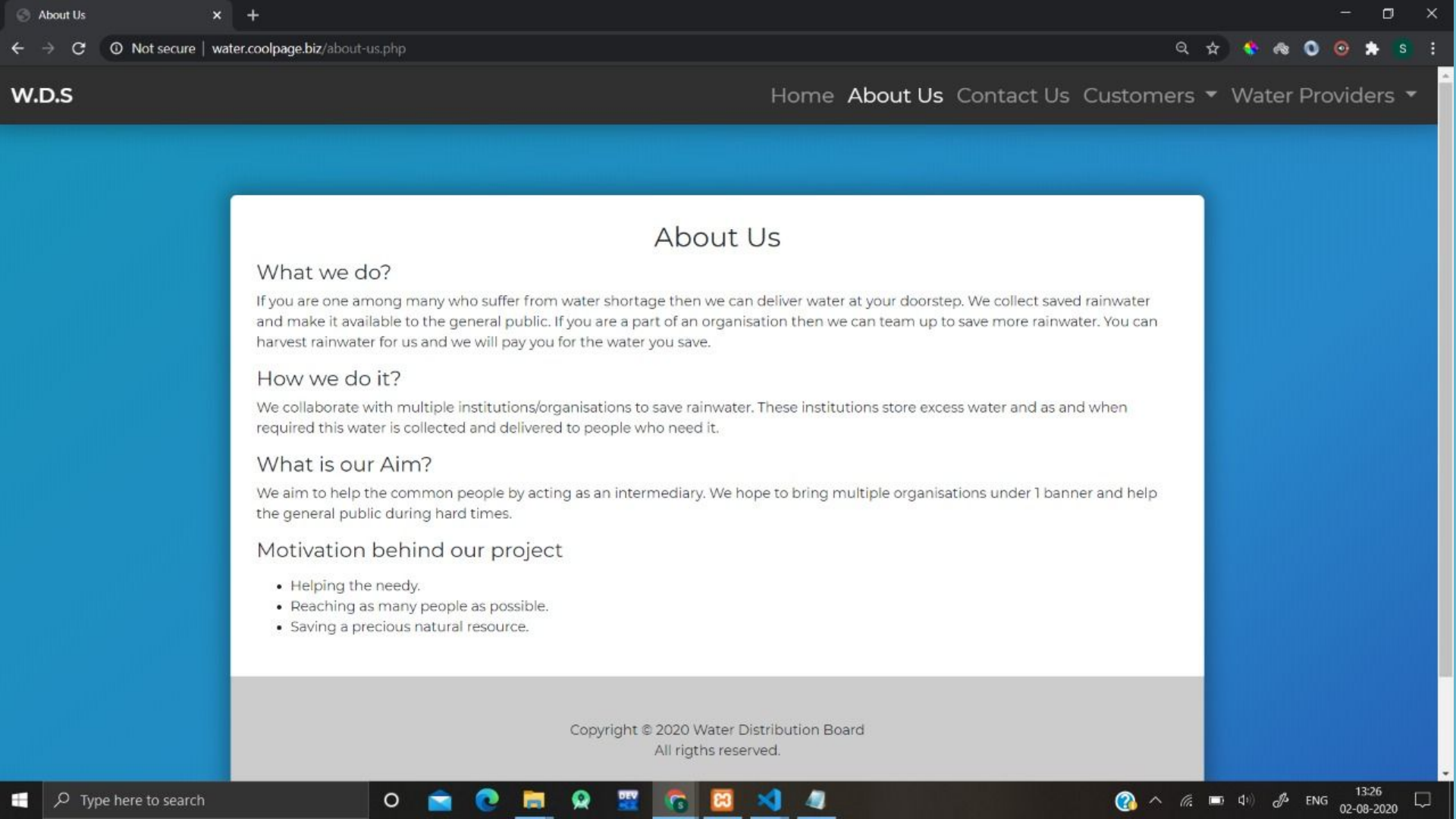
Password

☐ Remember Me

Login

[Forgot Password?](#)

[Create an Account!](#)



About Us

What we do?

If you are one among many who suffer from water shortage then we can deliver water at your doorstep. We collect saved rainwater and make it available to the general public. If you are a part of an organisation then we can team up to save more rainwater. You can harvest rainwater for us and we will pay you for the water you save.

How we do it?

We collaborate with multiple institutions/organisations to save rainwater. These institutions store excess water and as and when required this water is collected and delivered to people who need it.

What is our Aim?

We aim to help the common people by acting as an intermediary. We hope to bring multiple organisations under 1 banner and help the general public during hard times.

Motivation behind our project

- Helping the needy.
- Reaching as many people as possible.
- Saving a precious natural resource.

W.D.S

Dashboard

Change Password

Reports

test

Generate Report

Earnings (Monthly)

₹ 40,000

Earnings (Annual)

₹ 215,000

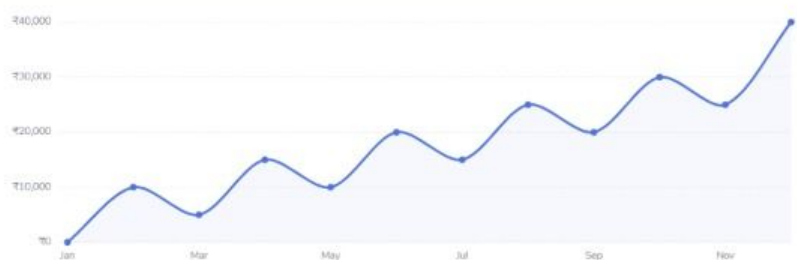
Tasks

50%


Pending Requests

18

Earnings Overview



Water Status



Delivered Booked Available

Current Orders

20/07/20
10 kL

21/07/20
20 kL

22/07/20
12 kL

Water Availability

Current water Availability:

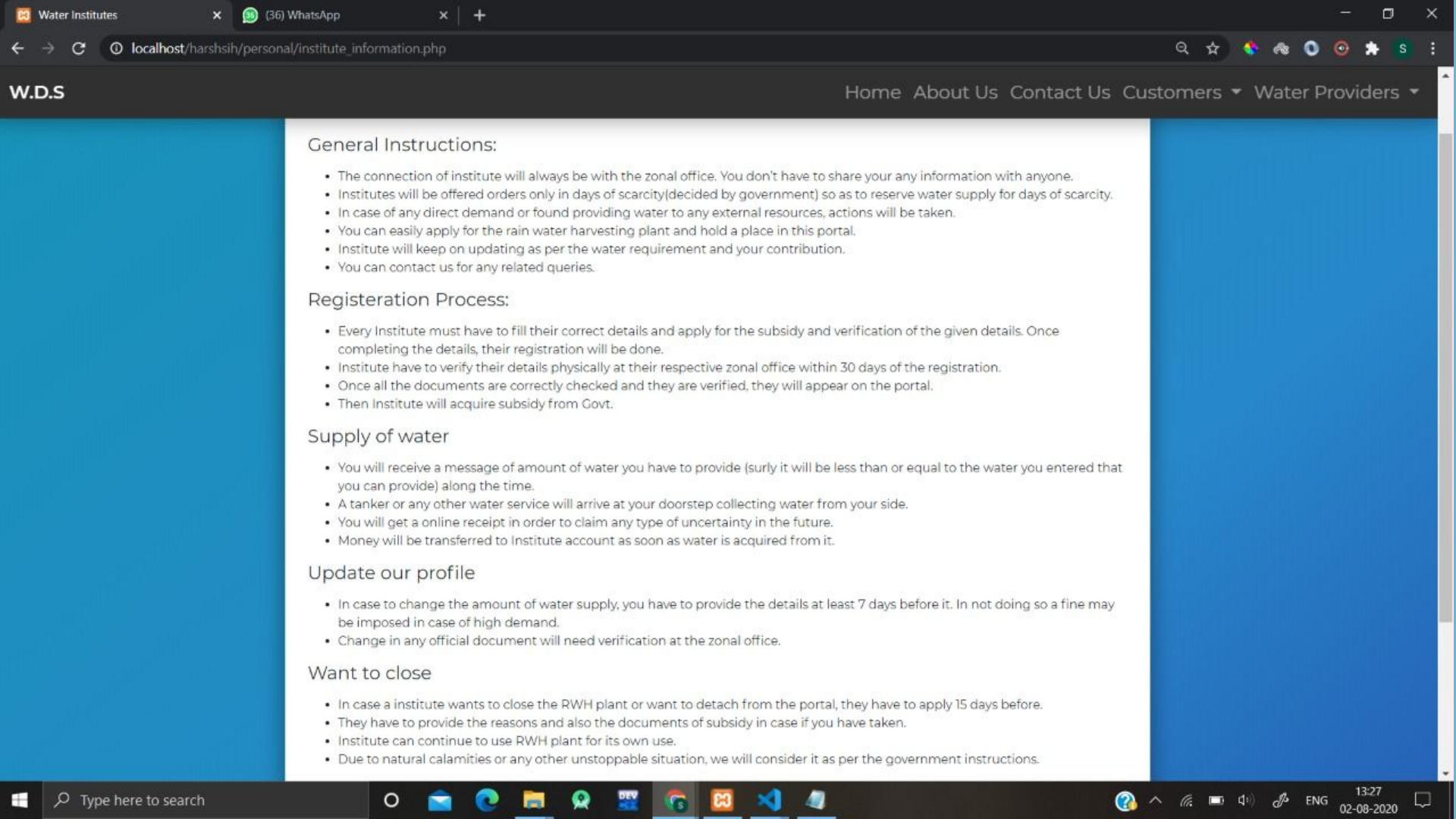
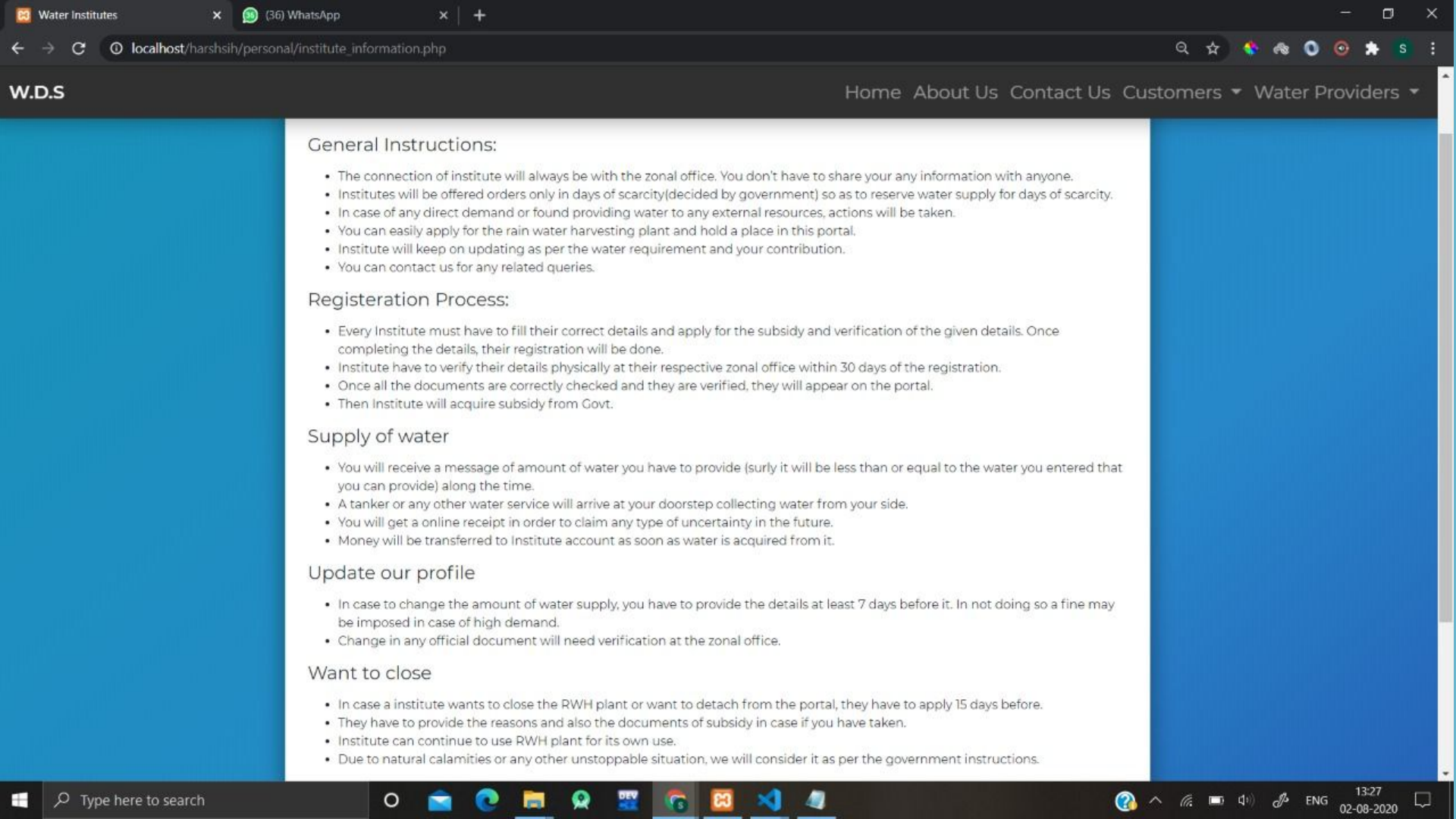
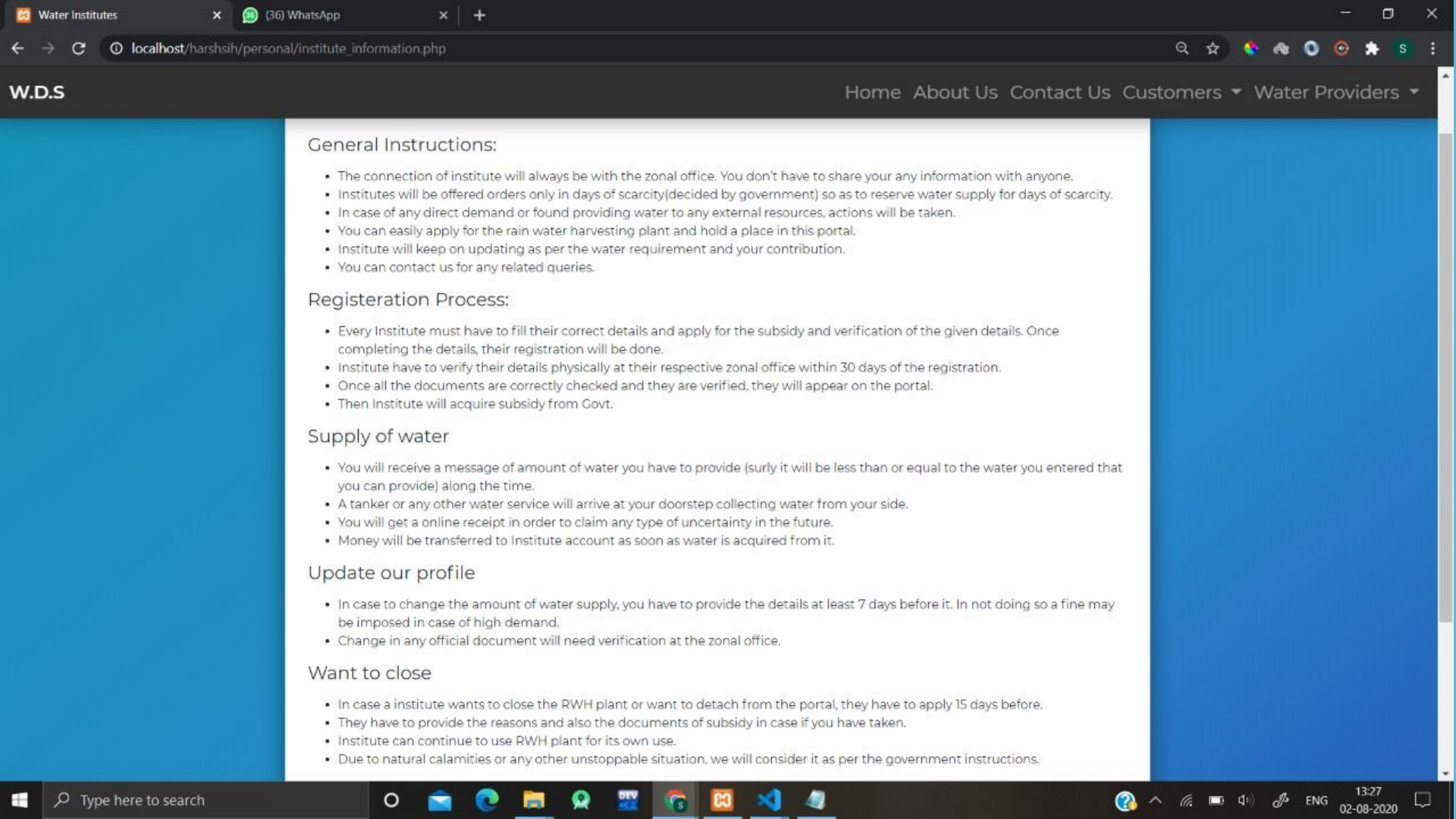
250

In KiloLitre:

Updated water Availability:

Update

Development Approach

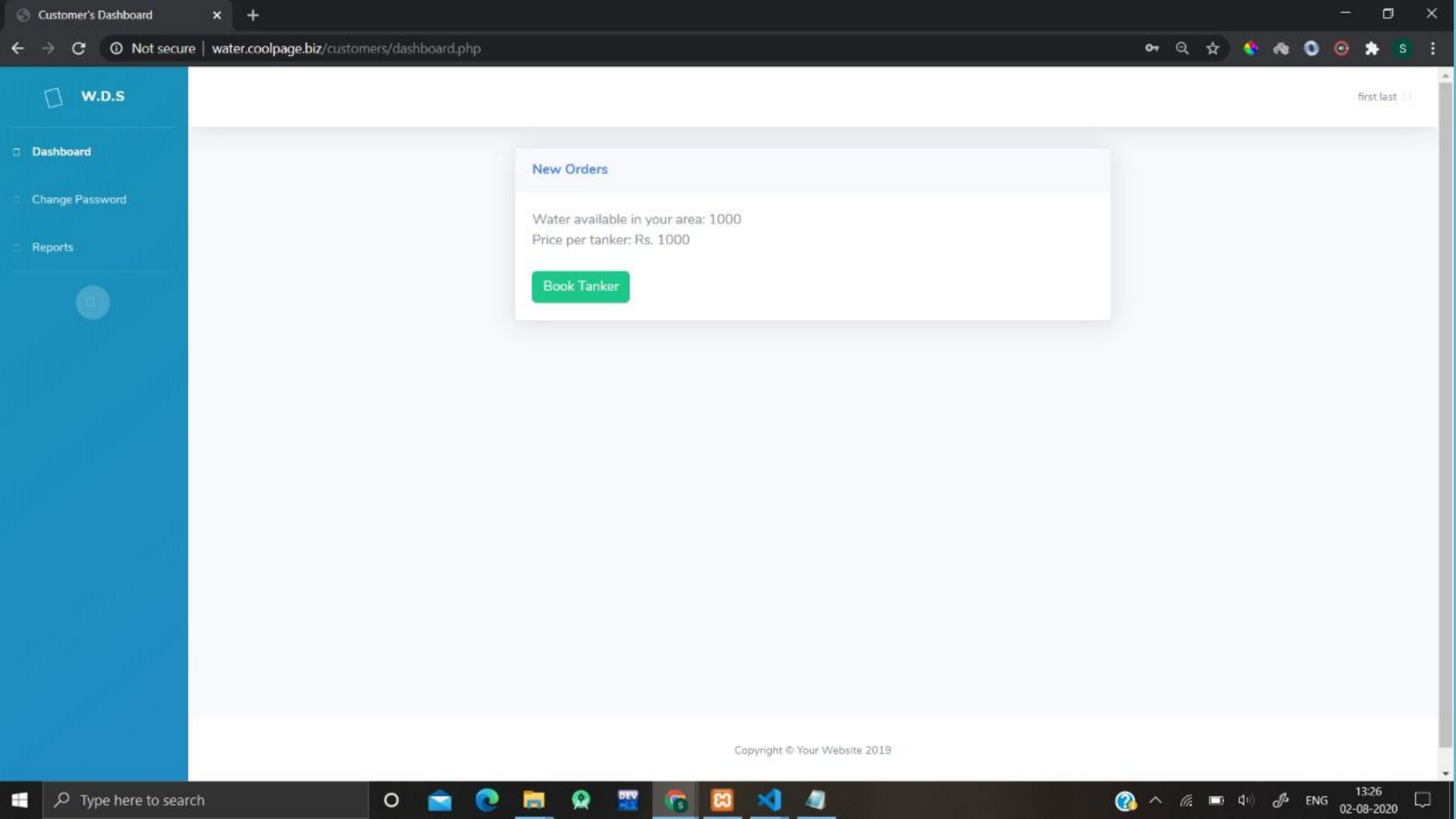




Create an Account!

Register Account

[Forgot Password?](#)
[Already have an account? Login](#)



W.D.S

Dashboard

Change Password

Reports



first last

New Orders

Water available in your area: 1000

Price per tanker: Rs. 1000

Book Tanker

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Type here to search

13:26
02-08-2020

References



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<https://www.google.com/url?sa=i&url=https%3A%2F%2Fwww.indiatimes.com%2Fnews%2FIndia%2Fnearly-200-constituencies-face-water-scarcity-it-s-time-to-debate-water-management-in-india-364893.html&psig=AOvVaw1AX2MNOygaumLa28Dhensx&ust=1596344514056000&source=images&cd=vfe&ved=0CAIQjRxqFwoTCPClqfGc-eoCFQAAAAAdAAAAABAJ>



https://www.nit.ac.in/pdf/Rainwater_harvesting.pdf



<https://www.rainharvesting.co.uk/case-studies/>



https://www.ocwindia.com/nearest_collection_centre



<https://startbootstrap.com/themes/sb-admin-2>



Thank you