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MAPPERS APP VERSION 1.0

DB structure, Webservices

DATABASE STRUCTURE

LOGIN TABLE

LoginEmail Address	Varchar (255)	Primary Key
Password	Varchar (255)	
UserType	Varchar (255)	
VerifiedUser	Boolean	

CROWD SOURCING PARTICIPATION TABLE

LoginEmailAddress	Varchar (255)	Primary Key
Name	Varchar (255)	
Surname	Varchar (255)	
MobileNumber	Varchar (255)	

CROWD SOURCING EXPOSED ELEMENTS TABLE

LoginEmailAddress	Varchar (255)	Primary Key
Address	Varchar (4096)	
NumberofResidents	Integer (3)	
AgeRangeMin	Varchar (255)	
AgeRangeMax	Varchar (255)	
LimitedMobility	Integer(3)	
ElderlyPeople	Integer(3)	

CROWD SOURCING DAMAGES TABLE

LoginEmailAddress	Varchar (255)	
TypeofView	Varchar (4096)	
TypeofDamage	Varchar (4096)	
PeopleInvolved	Integer(4)	
ImageUrl	Varchar(1024)	
DateTime	Timestamp	

CROWD SOURCING WATER LEVEL TABLE

LoginEmailAddress	Varchar (255)	
WaterHeight	Integer(3)	
ImageUrl	Varchar(255)	
DateTime	Timestamp	

SAVE FAMILY TABLE

LoginEmailAddress	Varchar (255)	
FamilyMember	Varchar (4096)	

SUBMIT FAMILY TABLE

LoginEmailAddress	Varchar (255)	
FamilyMember	Varchar (4096)	

SAVE EXTERNAL CONTACTS TABLE

LoginEmailAddress	Varchar (255)	
ExternalContact	Varchar (4096)	

SUBMIT EXTERNAL CONTACTS TABLE

LoginEmailAddress	Varchar (255)	
ExternalContact	Varchar (4096)	

SAVE USEFUL NUMBERS TABLE

LoginEmailAddress	Varchar (255)	
UsefulNumbers	Varchar (4096)	

SUBMIT USEFUL NUMBERS TABLE

LoginEmailAddress	Varchar (255)	
UsefulNumbers	Varchar (4096)	

SAVE FLOOD EQUIPMENT TABLE

LoginEmailAddress	Varchar (255)	
FloodEquipment	Varchar (4096)	

SUBMIT FLOOD EQUIPMENT TABLE

LoginEmailAddress	Varchar (255)	
FloodEquipment	Varchar (4096)	
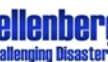
SAVE INSURANCE COVER TABLE

LoginEmailAddress	Varchar (255)	
InsuranceCover	Varchar (4096)	

SUBMIT INSURANCE COVER TABLE

LoginEmailAddress	Varchar (255)	
InsuranceCover	Varchar (4096)	

SAVE TURN OFF SUPPLIER TABLE

LoginEmailAddress	Varchar (255)	
TurnOffSupplier	Varchar (4096)	

SUBMIT TURN OFF SUPPLIER TABLE

LoginEmailAddress	Varchar (255)	
TurnOffSupplier	Varchar (4096)	

SAVE WARNING CODES TABLE

LoginEmailAddress	Varchar (255)	
WarningCodes	Varchar (4096)	

SUBMIT WARNING CODES TABLE

LoginEmailAddress	Varchar (255)	
WarningCodes	Varchar (4096)	

USER LOCATION TABLE

LoginEmailAddress	Varchar (255)	Primary Key
Latitude	Varchar (255)	
Longitude	Varchar (255)	

WEBSERVICE

REGISTRATION WEBSERVICE

❑http://www.xyz.co.uk/register.php

❑Upload registration details in JSON format

```json
{
    "mappers": {
        "email": "john@smith.co.uk",
        "password": "abc",
        "user": "mappers-c"
    }
}
```

LOGIN WEBSERVICE

❑ http://www.xyz.co.uk/login.php

❑ Upload registration details in JSON format

```json
{
    "mappers": {
        "email": "john@smith.co.uk",
        "password": "abc"
    }
}
```

LOGIN WEBSERVICE

☐ http://www.xyz.co.uk/login.php

☐ If successful login:

```
{
    "mappers": {
        "login": "successful",
        "user": "mappers-c"
    }
}
```

LOGIN WEBSERVICE

☐ http://www.xyz.co.uk/login.php

☐ If login failed due to wrong username:

```
{ ⊟
    "mappers": { ⊟
        "login": "failed",
        "reason": "wrong username"
    }
}
```

LOGIN WEBSERVICE

❑ http://www.xyz.co.uk/login.php

❑ If login failed due to wrong password:

```json
{
    "mappers": {
        "login": "failed",
        "reason": "wrong password"
    }
}
```

FORGOT PASSWORD WEBSERVICE

❑http://www.xyz.co.uk/forgotpassword.php

❑The email address is uploaded in JSON format

```json
{
    "mappers": {
        "email": "john@smith.co.uk"
    }
}
```

FORGOT PASSWORD WEBSERVICE

☐ http://www.xyz.co.uk/forgotpassword.php

☐ If the email address is found

```json
{ ⊟
    "mappers": { ⊟
        "forgotpassword": "successful"
    }
}
```

FORGOT PASSWORD WEBSERVICE

❑http://www.xyz.co.uk/forgotpassword.php

❑If the email address is not found on the server

```json
{
    "mappers": {
        "forgotpassword": "failed",
        "reason": "wrong username"
    }
}
```

CROWD SOURCING PARTICIPATION WEBSERVICE

❑http://www.xyz.co.uk/crowdparticipation.php

❑The data will be uploaded in JSON format.

```json
{
    "mappers": {
        "loginemail": "john@smith.co.uk",
        "name": "john",
        "surname": "smith",
        "mobile": "+44123456"
    }
}
```

CROWD SOURCING PARTICIPATION WEBSERVICE

❑http://www.xyz.co.uk/crowdparticipation.php

❑If the data will is successfully uploaded.

```
{
    "mappers": {
        "dataupload": "successful"
    }
}
```

CROWD SOURCING PARTICIPATION WEBSERVICE

❑http://www.xyz.co.uk/crowdparticipation.php

❑If the data upload fails.

```json
{
    "mappers": {
        "dataupload": "failed"
    }
}
```

CROWD SOURCING EXPOSED ELEMENTS WEBSERVICE

□The data is uploaded in JSON format.

```json
{
    "mappers": {
        "loginemail": "john@smith.co.uk",
        "address": "9, Buckingham Palace",
        "residents": "2",
        "agerangemin": "<15",
        "agerangemax": ">60",
        "limitedmobility": "2",
        "elderlypeople": "2"
    }
}
```

CROWD SOURCING DAMAGES WEBSERVICE

❑http://www.xyz.co.uk/crowddamages.php

❑The data is uploaded in JSON format.

```
{
    "mappers": {
        "loginemail": "john@smith.co.uk",
        "typeofview": "top",
        "typeofdamage": "severe",
        "peopleinvolved": "2",
        "uploadimage": "yes"
    }
}
```

CROWD SOURCING DAMAGES WEBSERVICE

❏ http://www.xyz.co.uk/crowddamages.php

❏ The URL will return response in JSON Format. The file name is current unix timestamp concatenated with a four digit random number.

```json
{
    "mappers": {
        "dataupload": "successful",
        "filename": "14246963681234"
    }
}
```

CROWD SOURCING IMAGE UPLOAD WEBSERVICE

❑http://www.xyz.co.uk/imageupload.php

❑Once the image is uploaded successfully, the following response is received.

```
{
    "mappers": {
        "imageupload": "successful"
    }
}
```

CROWD SOURCING WATER LEVEL WEBSERVICE

❑http://www.xyz.co.uk/waterlevel.php

❑The data is uploaded in JSON format.

```json
{
    "mappers": {
        "loginemail": "john@smith.co.uk",
        "waterheight": "100 cms",
        "imageupload": "yes"
    }
}
```

FLOOD PLAN WEBSERVICE

❑http://www.xyz.co.uk/floodplansave.php

❑The data is uploaded in JSON format.

```
{
    "mappers": {
        "loginemail": "john@smith.co.uk",
        "familymembers": "Simone-Farmer, Nadia-Secretary",
        "externalcontacts": "Pippo-383746327, Lucia-34657489",
        "usefulnumbers": "Contact 1-338596960,Contact 2-346500330,Contact n-351865655",
        "floodequipment": "Bags, Medicines, Safety Guide",
        "insurancecover": "Flood Damage,Insurance Company, Insurance Claim",
        "turnoffsupplier": "Ask Supplier, Help to turn off, Mark taps or switches",
        "warningcodes": "Flood Alert, Flood Warning, Severe Flood Warning"
    }
}
```

FLOOD PLAN WEBSERVICE

❑ http://www.xyz.co.uk/floodplansubmit.php

❑ The data is uploaded in JSON format.

```
{
    "mappers": {
        "loginemail": "john@smith.co.uk",
        "familymembers": "Simone-Farmer, Nadia-Secretary",
        "externalcontacts": "Pippo-383746327, Lucia-34657489",
        "usefulnumbers": "Contact 1-338596960,Contact 2-346500330,Contact n-351865655",
        "floodequipment": "Bags, Medicines, Safety Guide",
        "insurancecover": "Flood Damage,Insurance Company, Insurance Claim",
        "turnoffsupplier": "Ask Supplier, Help to turn off, Mark taps or switches",
        "warningcodes": "Flood Alert, Flood Warning, Severe Flood Warning"
    }
}
```

FLOOD PLAN WEBSERVICE

❑http://www.xyz.co.uk/citizenlocation.php

❑The data is uploaded in JSON format.

```
{
    "mappers": {
        "loginemail": "john@smith.co.uk",
        "latitude": "35.27861",
        "longitude": "-3.7516"
    }
}
```

DOWNLOAD PROFILE WEBSERVICE

❑ http://www.xyz.co.uk/downloadprofile.php?loginemail=john@smith.co.uk

❑ The data will be downloaded in JSON format.

❑ Please see next slide for the response from the server.

```
{
    "mappers": {
        "crowdsourcing": {
            "name": "john",
            "surname": "smith",
            "mobile": "+44123456"
        },
        "crowdexposedelements": {
            "address": "9, Buckingham Palace",
            "residents": "2",
            "agerangemin": "<15",
            "agerangemax": ">60",
            "limitedmobility": "2",
            "elderlypeople": "2"
        },
        "floodplansave": {
            "familymembers": "Simone-Farmer, Nadia-Secretary",
            "externalcontacts": "Pippo-383746237, Lucia-34657489",
            "usefulnumbers": "Contact1-33859690, Contact2-34650030",
            "floodequipment": "Bags, Medicine, Safety Guide",
            "insurancecover": "Flood Damage, Insurance Company, Insurance Claim",
            "turnoffsupplier": "Ask Supplier, Help to turn off",
            "warningcodes": "Flood Alert, Flood Warning, Severe Flood Warning"
        }
    }
}
```

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VOLUNTEERS WEBSERVICE

ADDITIONAL DATABASE

DANGER DATABASE

LoginEmailAddress	Varchar (255)	
DangerStatus	Varchar (4096)	
ImageUrlDangerVisibility	Varchar (4096)	
DateTime	Timestamp	

HAZARD DATABASE

LoginEmailAddress	Varchar (255)	
Typology	Varchar (4096)	
HazardSources	Varchar (4096)	
AccidentType	Varchar (4096)	
MaterialState	Varchar (4096)	
MaterialTypology	Varchar (4096)	
SpillState	Varchar (4096)	
Oil Level	Varchar (4096)	
ExplosionType	Varchar (4096)	
DateTime	Timestamp	
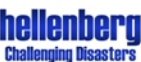
FACILITIES DATABASE

LoginEmailAddress	Varchar (255)	
Typology	Varchar (4096)	
Number	Varchar (4096)	
TypeOfBuilding	Varchar (4096)	
GroundType	Varchar (4096)	
VehicleType	Varchar (4096)	
DateTime	Timestamp	

DANGER WEBSERVICE

☐ http://www.xyz.co.uk/danger.php

☐ The data is uploaded in JSON format.

```
{
    "mappers": {
        "loginemail": "john@smith.co.uk",
        "dangerstatus": "high",
        "dangervisibility": "visible"
    }
}
```

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HAZARD WEBSERVICE

❑ http://www.xyz.co.uk/hazards.php

❑ The data is uploaded in JSON format.

```
{
    "mappers": {
        "loginemail": "john@smith.co.uk",
        "Typology": "unknown",
        "HazardSources": "oil",
        "AccidentType": "Car crash",
        "MaterialState": "Liquid",
        "MaterialTypology": "unknown",
        "SpillState": "High",
        "OilLevel": "Low",
        "ExplosionType": "None"
    }
}
```

FACILITIES WEBSERVICE

❑ http://www.xyz.co.uk/facilities.php

❑ The data is uploaded in JSON format.

```
{
    "mappers": {
        "loginemail": "john@smith.co.uk",
        "Typology": "unknown",
        "Number": "23",
        "TypeOfBuilding": "Victorian",
        "GroundType": "Liquid",
        "VehicleType": "Bus"
    }
}
```

ADDITIONAL REQUIREMENTS

❑Web Based User Interface to display all values and search for specific values.

❑Push Notification to display whether a volunteer is active, not active, in threat of life or not in threat of life.