Testcases

1.

Here are the addresses you'll be working with:

- `Admin`: `0x3315bcB652c7A608454240CE4A62D247f362B7AA`
- `Issuer`: `0xb374fF37377b6C2d92236e2978e75A14B9145179`
- `Holder`: `0xa5B7b86C6752faBc627bfd640898C86aA4Cb2196`

Ensure that you deploy the `DidManage` contract in Remix. Then, make sure you are using the `Admin` account (`0x3315bcB652c7A608454240CE4A62D247f362B7AA`) to call the `grantIssuerRole` function.
After deploying the contract in Remix:

1. Select the `Admin` account (`0x3315bcB652c7A608454240CE4A62D247f362B7AA`) in the "Account" dropdown.
2. Call the `grantIssuerRole` function, providing the `Issuer` address (`0xb374fF37377b6C2d92236e2978e75A14B9145179`) as the argument. Click "Transact".

2.
For hasRole: use admin account only
Take role bytes32 from the logs of the output from grantUssuerRole role: copy paste it
And then put address of issuer

3.
. Create DIDs:

- Holder:
  - Select the `Holder` account (`0xa5B7b86C6752faBc627bfd640898C86aA4Cb2196`) in Remix.
  - Select the `createDID` function in the "Deployed Contracts" section.
  - Enter `"0xHOLDER_PUBLIC_KEY"` (including the quotes) in the `publicKey` field.
  - Click "Transact" and wait for the transaction to confirm.
- Issuer:
  - Select the `Issuer` account (`0xb374fF37377b6C2d92236e2978e75A14B9145179`) in Remix.
  - Select the `createDID` function.
  - Enter `"0xISSUER_PUBLIC_KEY"` (including the quotes) in the `publicKey` field.
  - Click "Transact" and wait for the transaction to confirm.

Update DID (Holder):

- Select the `Holder` account (`0xa5B7b86C6752faBc627bfd640898C86aA4Cb2196`) in Remix.
- Select the `updateDID` function.
- Enter `"0xHOLDER_PUBLIC_KEY_UPDATED"` (or any other new string, including the quotes) in the `newPublicKey` field.
- Click "Transact" and wait for the transaction to confirm.

4.
Addresses (Ensure these are set correctly in Remix)

- `Admin`: 0x3315bcB652c7A608454240CE4A62D247f362B7AA
- `Issuer`: 0xb374fF37377b6C2d92236e2978e75A14B9145179
- `Holder`: 0xa5B7b86C6752faBc627bfd640898C86aA4Cb2196

Values (Use these exact values for testing)

- `ISSUER_ROLE`: 0xba2ef84018037e39dd5c0f045802d49699e7c20997859724993930c979f9978c
- `CredHash`: 0x30c39fa76de6e9f318ec472a89eb19adc0bf3d90f354e6dda4dce70fdc03b1c1
- `Expiry`: 10
- `SchemaId`: 0x235855ea0062a0f503a49f966944a5649e4ba25039488145b7345bc1677b2cc4
- `IssuerPublicKey`: `"0xISSUER_PUBLIC_KEY"`
- `HolderPublicKey`: `"0xHOLDER_PUBLIC_KEY"`

1. `createDID` (Issuer):
   - Select the `Issuer` account (`0xb374fF37377b6C2d92236e2978e75A14B9145179`) in Remix.
   - Call `createDID` with `"0xISSUER_PUBLIC_KEY"` as the `publicKey`.
   - Copy and paste the transaction hash of this transaction. I need this.
2. `createDID` (Holder):
   - Select the `Holder` account (`0xa5B7b86C6752faBc627bfd640898C86aA4Cb2196`) in Remix.
   - Call `createDID` with `"0xHOLDER_PUBLIC_KEY"` as the `publicKey`.
   - Copy and paste the transaction hash of this transaction. I need this.
3. `issueCredential`:
   - Select the `Issuer` account (`0xb374fF37377b6C2d92236e2978e75A14B9145179`) in Remix.
   - Call `issueCredential` with the following parameters:
     - `holder`: 0xa5B7b86C6752faBc627bfd640898C86aA4Cb2196

- **credentialHash**:
  `0x30c39fa76de6e9f318ec472a89eb19adc0bf3d90f354e6dda4dc e70fdc03b1c1`
- **durationInBlocks**: 10
- **schemaId**:
  `0x235855ea0062a0f503a49f966944a5649e4ba25039488145b734 5bc1677b2cc4`
  - Copy and paste the transaction hash of this transaction. I need this.

4. `getCredential`:
   - Select *any* account in Remix.
   - Call `getCredential` with the parameters:
     - **holder**: `0xa5B7b86C6752faBc627bfd640898C86aA4Cb2196`
     - **credentialHash**:
       `0x30c39fa76de6e9f318ec472a89eb19adc0bf3d90f354e6dda4dc e70fdc03b1c1`
   - Paste the output (all the returned values) of this function call. I need this.

5. `verifyCredential`:
   - Select any account in Remix.
   - Call `verifyCredential` with the parameters:
     - **holder**: `0xa5B7b86C6752faBc627bfd640898C86aA4Cb2196`
     - **credentialHash**:
       `0x30c39fa76de6e9f318ec472a89eb19adc0bf3d90f354e6dda4dc e70fdc03b1c1`

5.
Values

- `presentationHash` =
  `0x1234567890abcdef1234567890abcdef1234567890abcdef1234567890abcde f`

Instructions for Remix:

1. `createPresentation(Issuer)`:
   - Select the `Issuer` account
     (`0xb374fF37377b6C2d92236e2978e75A14B9145179`) in Remix.
   - Select the `createPresentation` function.
   - Enter the `presentationHash` value:
     `0x1234567890abcdef1234567890abcdef1234567890abcdef1234567890 abcdef`
   - Click "Transact" and wait for the transaction to confirm.
2. `getPresentation(Issuer)`:
   - Select any account in Remix.
   - Select the `getPresentation` function.

- Enter the following values:
  - `holder`: `0xb374fF37377b6C2d92236e2978e75A14B9145179`
  - `presentationHash`: `0x1234567890abcdef1234567890abcdef1234567890abcdef1234567890abcdef`
- Click "Call". The result should be `true`.

3. `verifyPresentation(Issuer)`:
   - Select any account in Remix.
   - Select the `verifyPresentation` function.
   - Enter the following values:
     - `holder`: `0xb374fF37377b6C2d92236e2978e75A14B9145179`
     - `presentationHash`: `0x1234567890abcdef1234567890abcdef1234567890abcdef1234567890abcdef`
   - Click "Call". The result should be `true`.