Web application testing using Selenium Web Driver

White Box testing

sr.no	test case	Expected output	Actual output	Remark
1	both username & password valid	login successful	login successful	pass
2	username valid password invalid	login failed invalid password	login failed invalid password	pass
3	username invalid password invalid	login failed invalid username	login failed invalid username	pass
4	both username and password in valid	login failed both username and password invalid	login failed both username and password invalid	pass
5	empty username input field	login failed enter username	login failed enter username	pass
6	empty password input field	login failed enter password	login failed enter password	pass
7	both fileds empty	login failed	login failed	pass
8	space at start of username	login failed	login failed	pass
9	space at end of username	login failed	login failed	pass
10	space at start of password	login failed	login successful	fail/ invaild password still login successful
11	space at end of password	login failed	login successful	fail/ invaild password still login successful

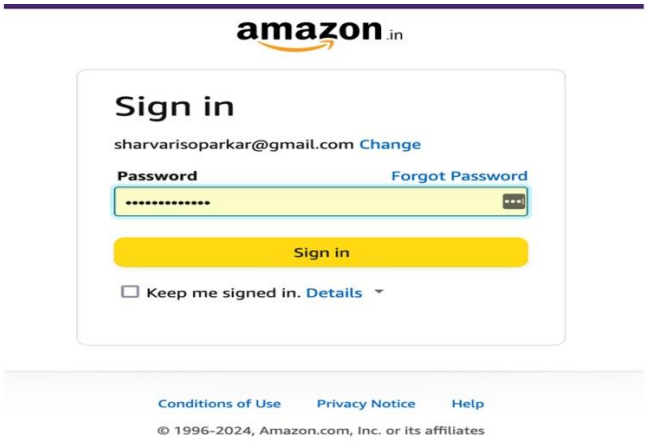
Black Box testing

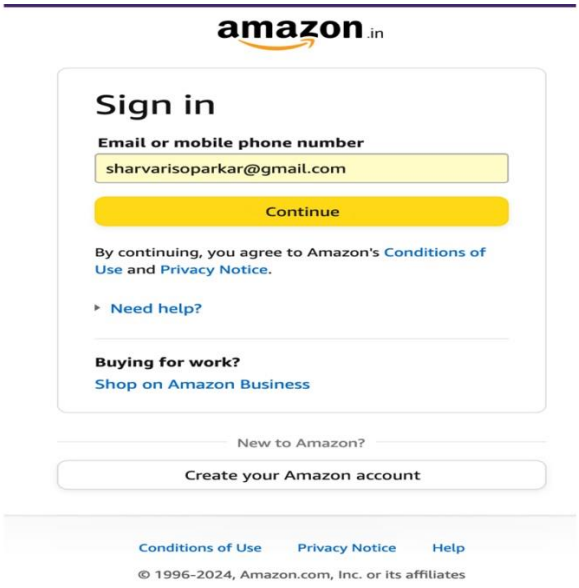
AMAZON WEBSITE SIGN IN PAGE

sr.no	test case	Expected output	Actual output	Remark
1	Enter email / mobile number & password	login successful	login successful	pass
2	email/mobile number invalid	sign in failed	We cannot find an account with that email addres	pass
3	password invalid	sign in failed	password is incorrect	pass
4	empty username input field	login failed enter username	Enter your email or mobile phone number	pass
5	empty password input field	login failed enter password	Enter your password	pass
6	space at start of email	login failed	enter password	fail
7	space at end of email	login failed	enter password	fail
8	space at start of password	login failed	login failed	pass
9	space at end of password	login failed	login failed	pass
10	forgot password	enter otp	verify account	pass

Test cases for Black Box Testing

Case 1:





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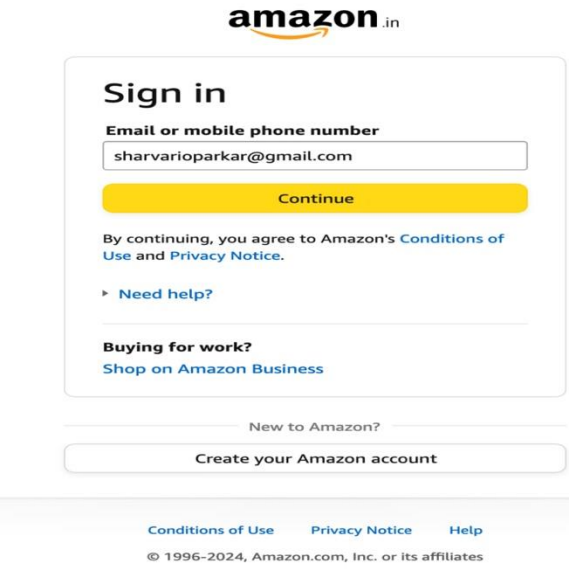

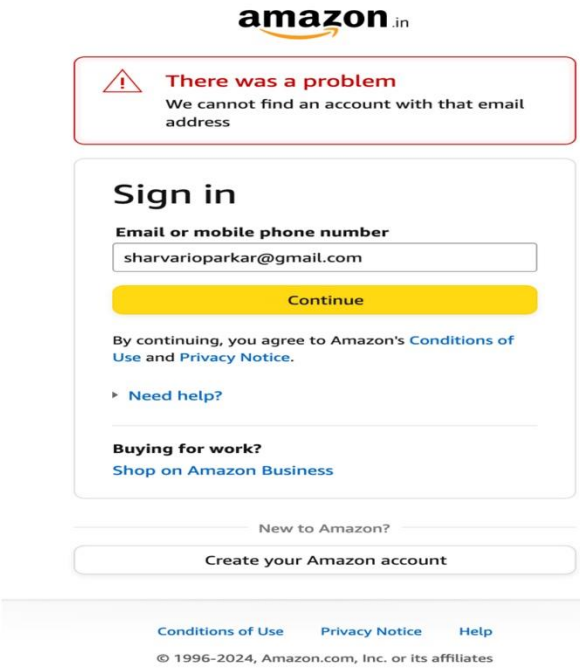

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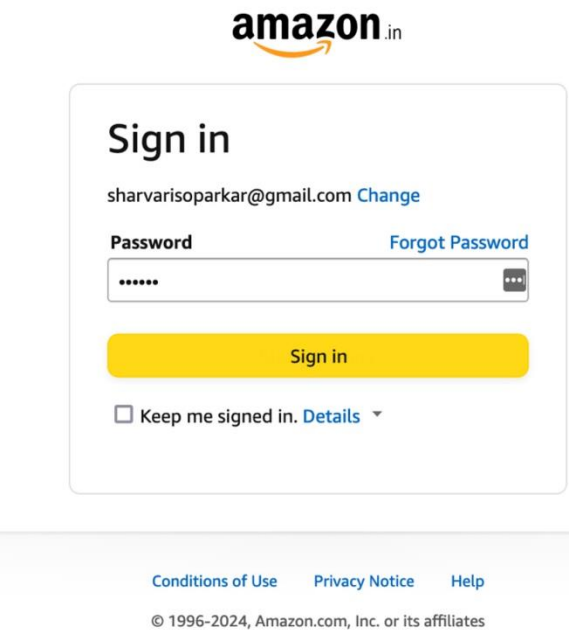

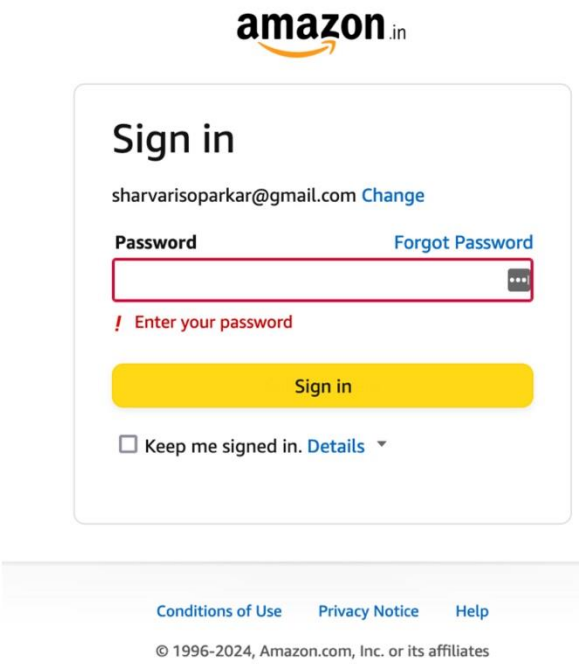

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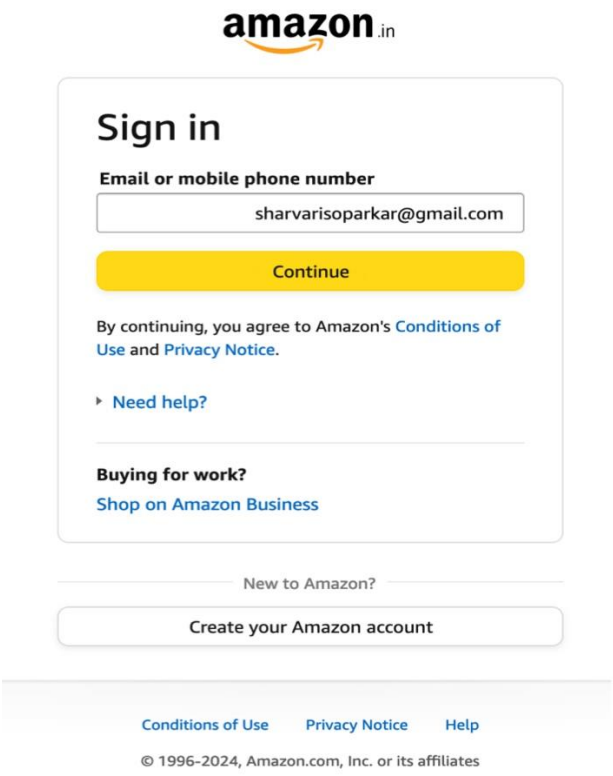
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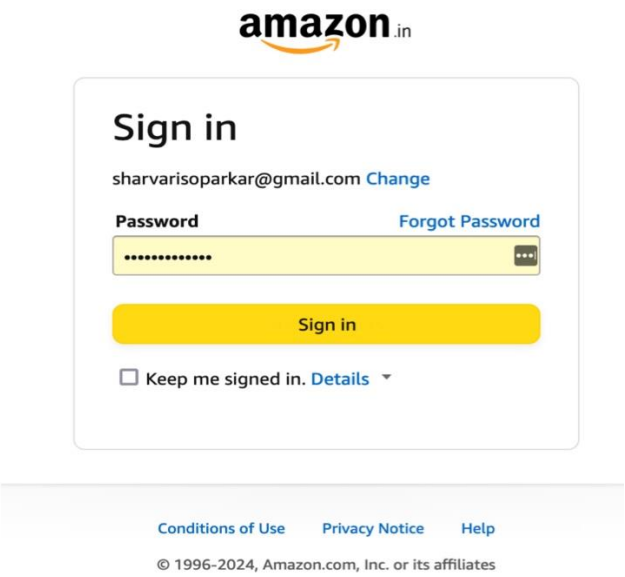
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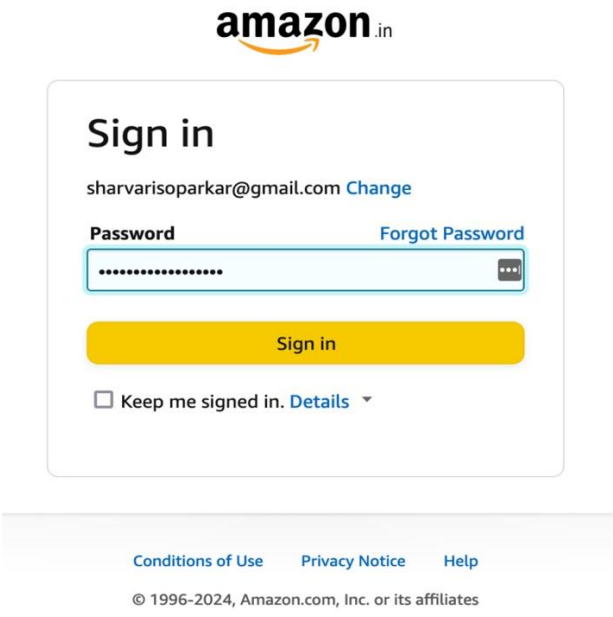
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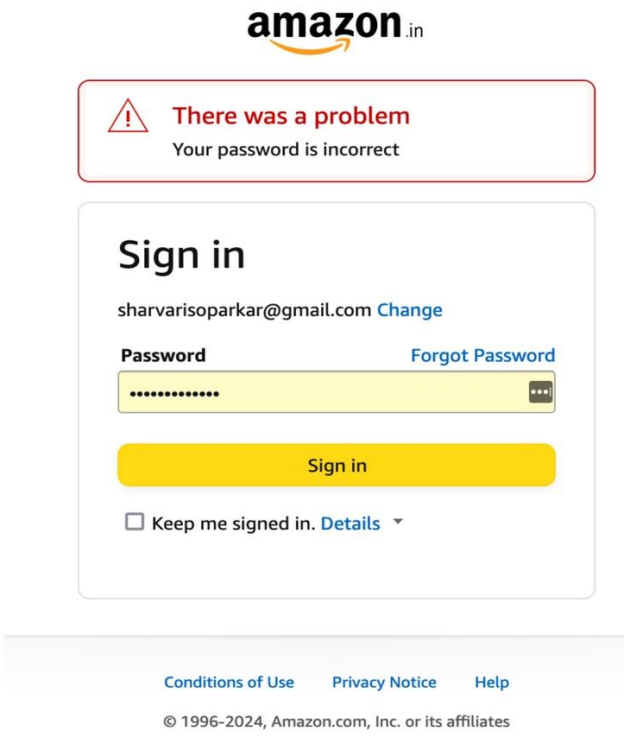
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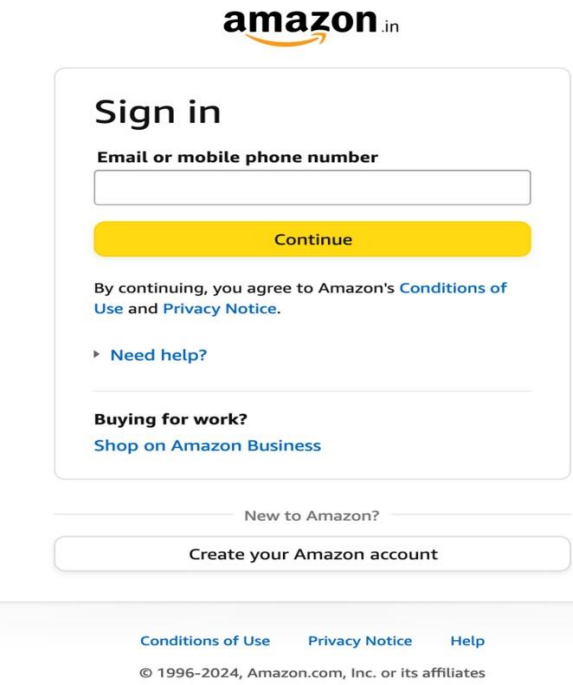
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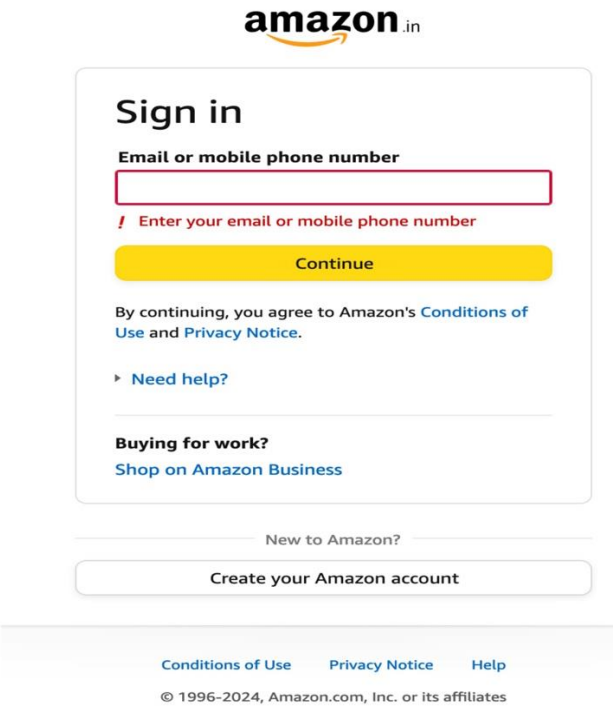
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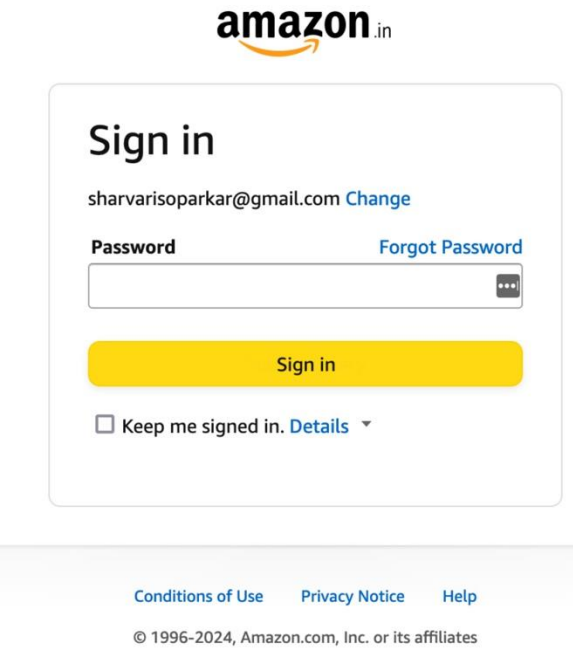
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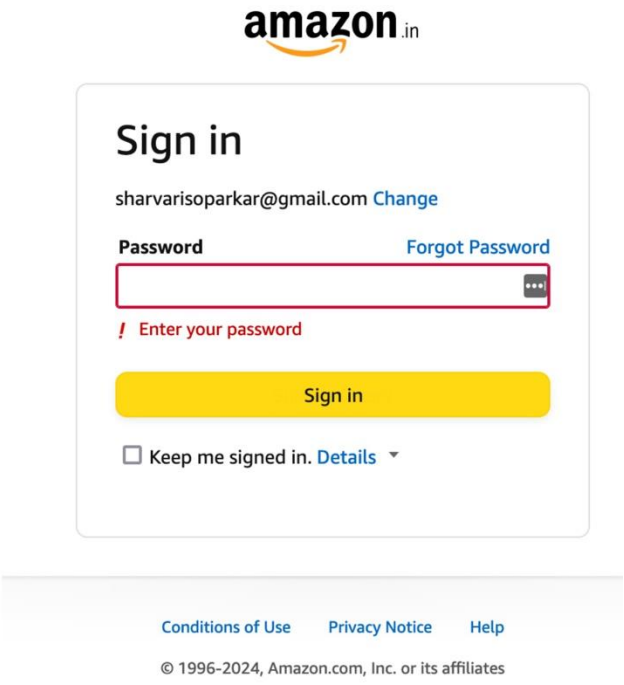
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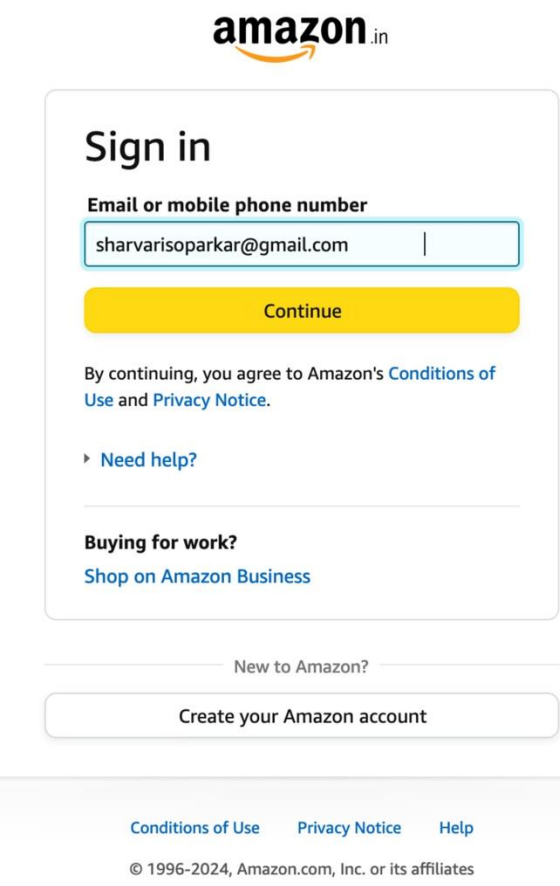

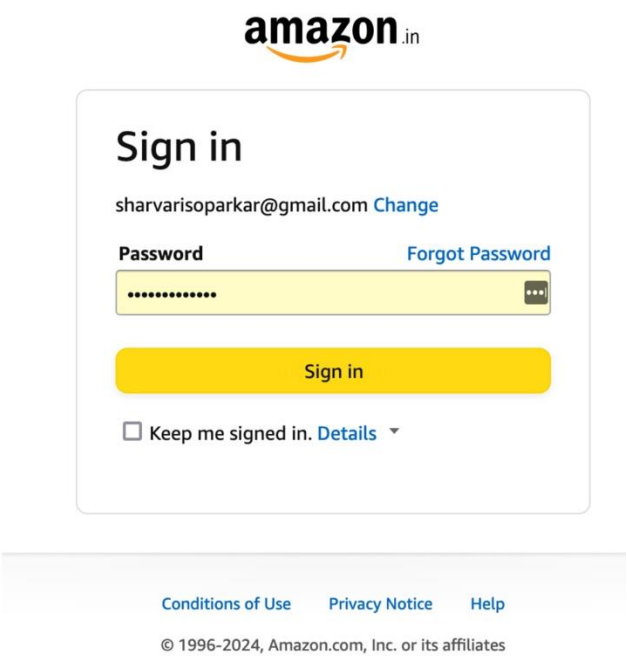

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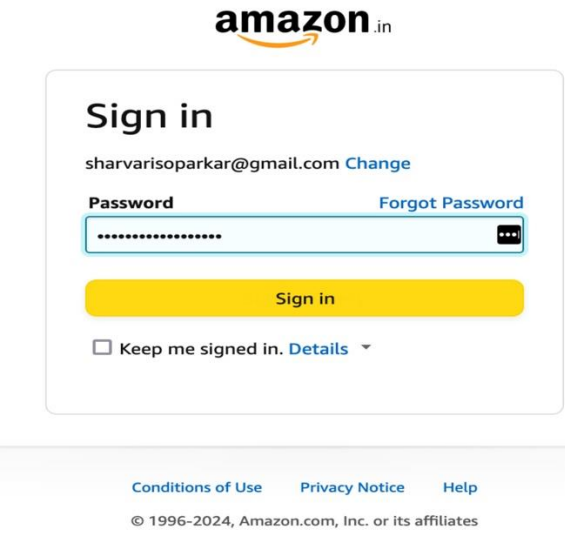

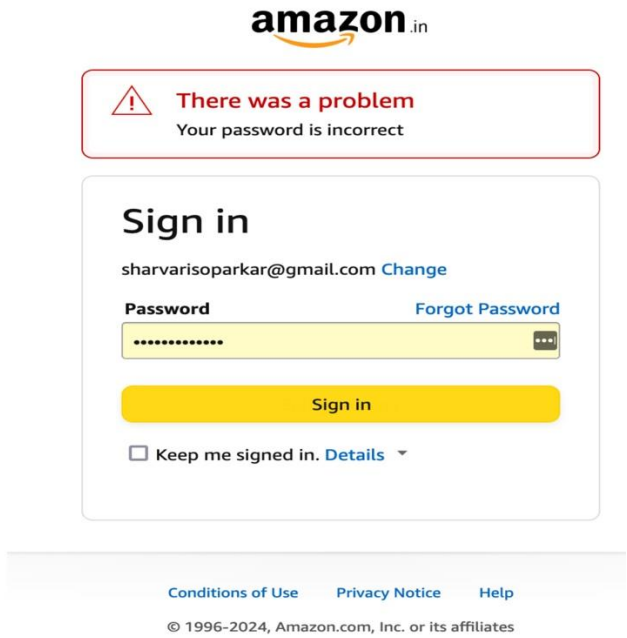

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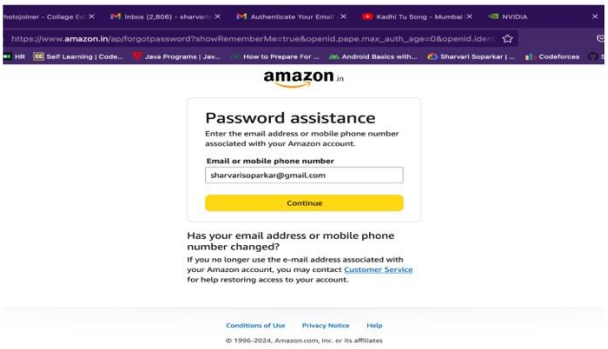
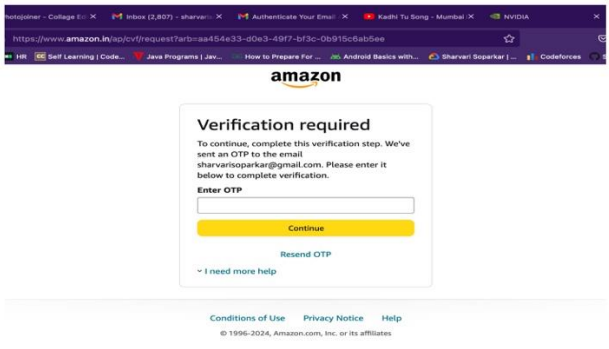
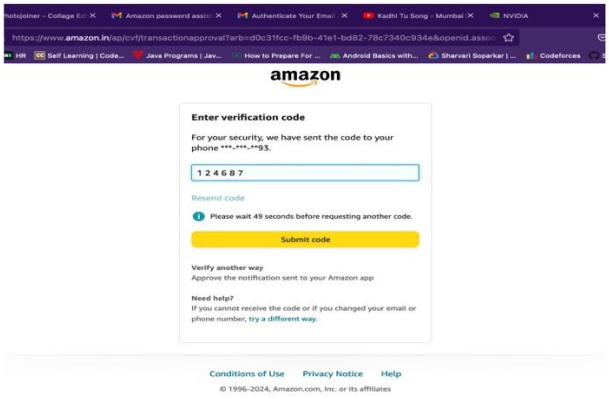
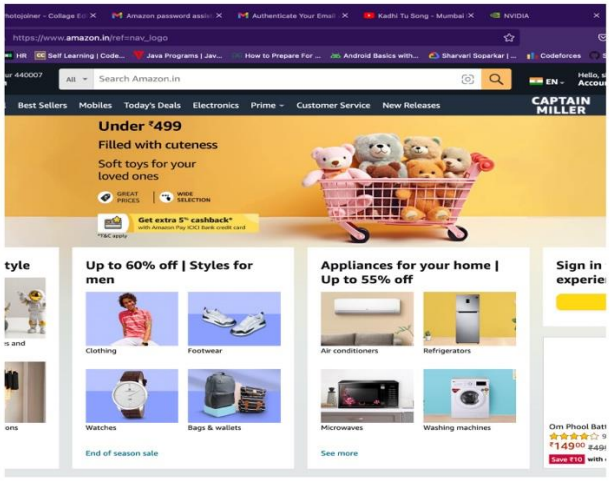








WHITE BOX TESTING CODE:

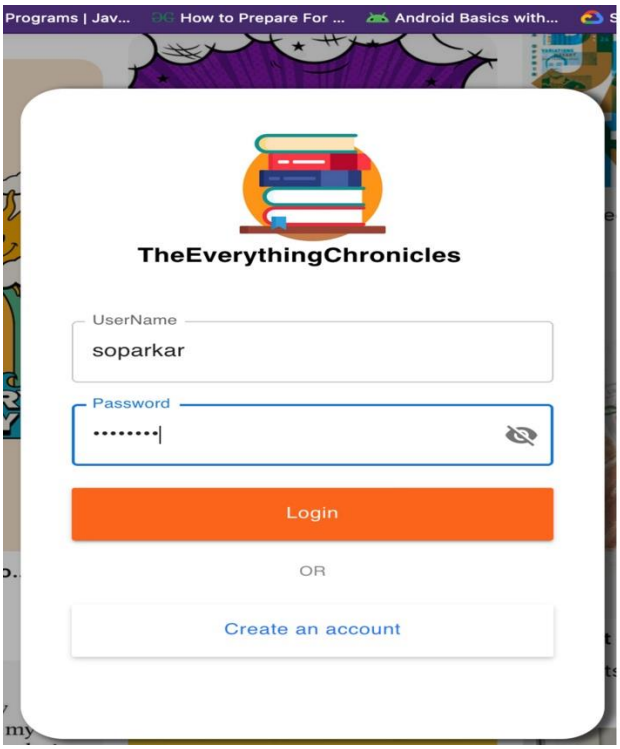
```
export const Login = (props) => {
  const imageURL = props.imageURL;
  const { setAccount } = useContext(DataContext);
  const name = 'TheEverythingChronicles';
  const history = useNavigate();

  const [account, toggleAccount] = useState('login');
  const [login, setLogin] = useState({username: '',password: ''});
  const [signup, setSignup] = useState({ name: '',username: '',password: ''});
  const [error, showError] = useState('');
  const [showPassword, setShowPassword] = useState(false);

  useEffect(() => {
    showError(false);
}, [login])

const toggleSignup = () => {
  account === 'signup' ? toggleAccount('login') : toggleAccount('signup');
```

```
}
async function handleLogin(e,username,password) {
  setAccount ({username: login.username})
    e.preventDefault();
    try{
        await axios.post("http://localhost:8000/",{
            username,password
        })
        .then(res=>{
          debugger
            if(res.data ==="exist"){
                props.isUserAuthenticated(true)
                history("/home",{state:{id:username}})
            }
            else if(res.data==="notexist"){
                alert("User have not sign up")
            }
        })
        .catch(e=>{
            alert("wrong details")
        })
    }
    catch(e){
        console.log(e);
    }
};

async function handleSignup (e,name,username,password)  {
    e.preventDefault();
    try{
        await axios.post("http://localhost:8000/signup",{
            username,password
        })
        .then(res=>{
            if(res.data==="exist"){
                alert("User already exists")
            }
            else if(res.data==="notexist"){
                alert("Signup Complete");
            }
        })
        .catch(e=>{
            alert("wrong details")
            console.log(e);
        })

    }
    catch(e){
```

```
        console.log(e);

    }
};

const onValueChange = (form, field, value) => {
  if (form === 'login') {
    setLogin((prevLogin) => ({ ...prevLogin, [field]: value }));
  } else {
    setSignup((prevSignup) => ({ ...prevSignup, [field]: value }));
  }
};
const responseGoogle = (response) => {
  if (response?.profileObj) {
    // Assuming you have the user's Google profile information
    const { email, givenName, familyName } = response.profileObj;

    // Use this information to authenticate the user or perform any necessary actions
    // For example, you can send this information to your server to create or
authenticate the user

    // After successful authentication, navigate to the home page
    history("/home", { state: { id: email, givenName, familyName } });
  } else {
    // Handle unsuccessful Google login
    console.error("Google login failed");
  }
};


  return (
    <div class="background-container">
    <div class="overlay"></div>
      <OuterBox style={{backgroundColor:'white'}}>
        <Image src={imageURL} alt="logo" />
        <Name>{name}</Name>
        {
        account === 'login' ?
          <Component className='loginBox'>
              <TextField id="outlined-basic1"  onChange={(e) => onValueChange('login',
'username', e.target.value)}value={login.username} label="UserName" variant="outlined"
/>
              <TextField
        id="outlined-basic2"
        type={showPassword ? 'text' : 'password'}  // Toggle between text and password
        onChange={(e) => onValueChange('login', 'password', e.target.value)}
        value={login.password}
        label="Password"
```

```
        variant="outlined"
        InputProps={{
          endAdornment: (
            <InputAdornment position="end">
              <IconButton
                onClick={() => setShowPassword(!showPassword)}
                edge="end"
              >
                {showPassword ? <Visibility /> : <VisibilityOff />}
              </IconButton>
            </InputAdornment>
          ),
        }}
      />
              {error && <Error>{error}</Error>}
              <LoginButton variant="contained" onClick={(e) =>
handleLogin(e,login.username,login.password)}>Login</LoginButton>
              <Text style={{ textAlign: 'center' }}>OR</Text>
              <SignupButton onClick={() => toggleSignup()} style={{ marginBottom: 50
}}>Create an account</SignupButton>
          </Component>
          :
          <Component className='signInBox'>
              <TextField id="outlined-basic1" label="Full Name"onChange={(e) =>
onValueChange('signup', 'name', e.target.value)}     value={signup.name}
variant="outlined" />
              <TextField id="outlined-basic2" label="UserName" onChange={(e) =>
onValueChange('signup', 'username', e.target.value)}
value={signup.username}variant="outlined" />
              <TextField id="outlined-basic3" type="password"label="Password"
onChange={(e) => onValueChange('signup', 'password', e.target.value)}
value={signup.password}variant="outlined" />
              <SignupButton onClick={(e) =>
handleSignup(e,signup.name,signup.username,signup.password)}>Signup</SignupButton>
              <Text style={{ textAlign: 'center' }}>OR</Text>
              <LoginButton variant="contained" onClick={() => toggleSignup()}>Already
have an account</LoginButton>
          </Component>

        }
      </OuterBox>
    </div>
  )
}
```

Case 1: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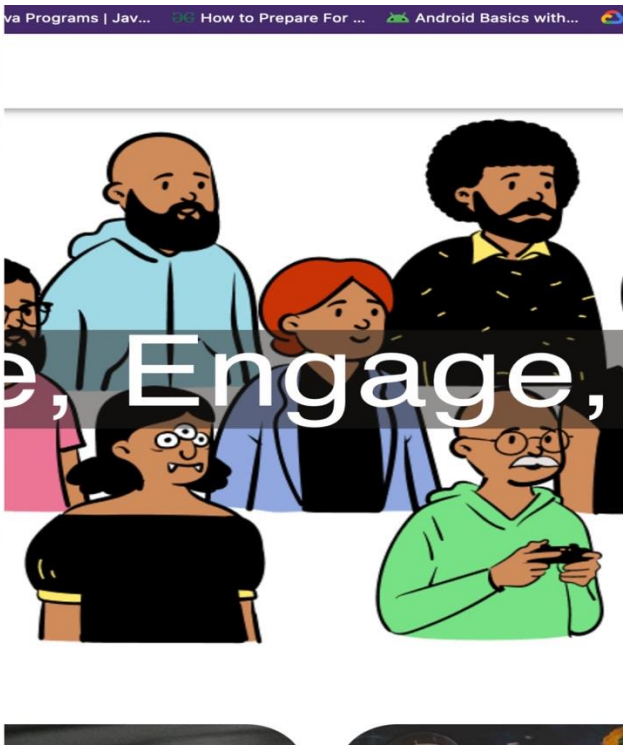
Password
Login
OR
Create an account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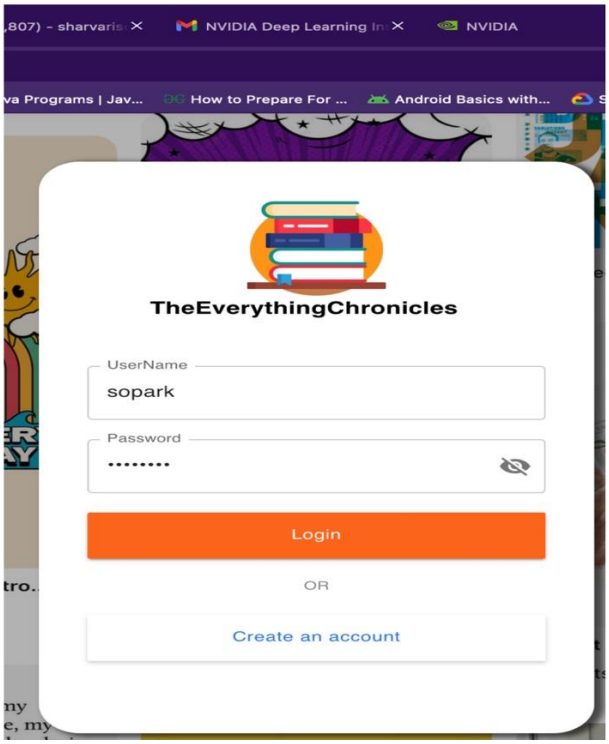
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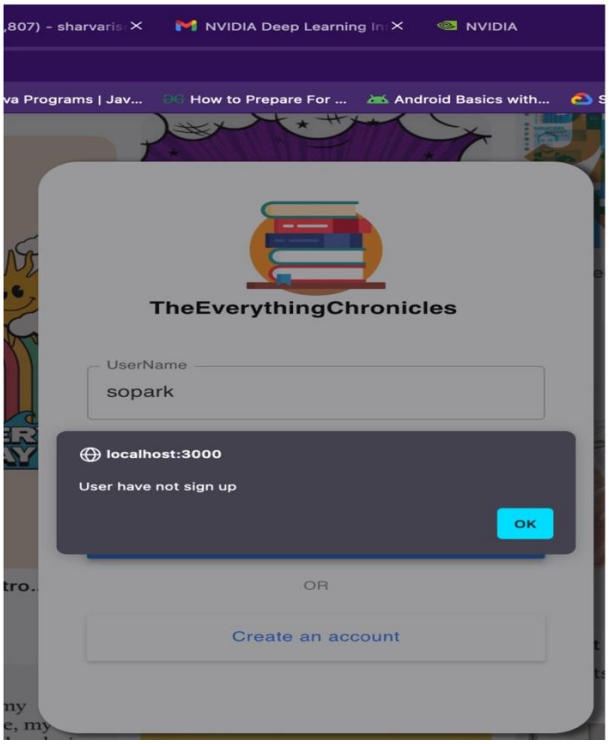
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OK
OR
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