

Vidyavardhini's College of Engineering and Technology

Department of Artificial Intelligence & Data Science

| | | AY: 2025-26 |) |
|--------------|------------|--------------|----|
| Class: | TE-AIDS | Semester: | I |
| Course Code: | CS C 5 0 2 | Course Name: | WC |

| Name of Student: | Dinya Davane |
|----------------------|-----------------------------------|
| Roll No.: | 14 |
| Assignment No.: | 6 |
| Title of Assignment: | React development using back-end. |
| Date of Submission: | • |
| Date of Correction: | |

Evaluation

| Performance Indicator | Max. Marks | Marks Obtained |
|------------------------|------------|----------------|
| Completeness | 5 | 5 |
| Demonstrated Knowledge | 3 | 3 |
| Legibility | 2 | 2 |
| Total | 10 | 10 |

| Performance Indicator | Exceed Expectations (EE) | Meet Expectations (ME) | Below Expectations (BE) |
|-----------------------------------|--------------------------|------------------------|-------------------------|
| Completeness | 5 | 3-4 | 1-2 |
| Demonstrated Knowledge Legibility | 3 | 2 | 1 |
| Legibility | 2 | 1 | 0 |

Checked by

Name of Faculty

•

Signature

Rharat

Date

: 6/10/20

| 1 | WC assignment-6 NAME:STD.: | DIV.: | DATE: PAGE: | |
|------------|-------------------------------|------------------|--------------------|-------------|
| | you are building a React of | unctional con | sponent that | neede |
| | is fetch data from an extern | nal API and a | lisklay it. Ve | ,-the |
| | component that fetches dlis | t users from | https://jsonpl | aceholder |
| | how use Effect manages the | side Effect in | your implemen | ntation. |
| stris | import React, { use State, us | | | |
| T CO | function Userlist () { | | | |
| 193 | const [users, setUsers] = us | | | |
| . P. 6.45. | use Effect (() ⇒ { | l cinjala | 1117 11002 | |
| The dy tre | fetch ("https://jsonplacehole | deritypicode.c | com/resers") | |
| LACON Y | then ((response) => respons | ien json ()) | dice of the said | |
| 1-1-11 124 | then ((data) ⇒ { | Trying Car av | is done i | |
| - | setUsers (data); | un vellaiten | . Sad . holds | |
| | setloading (false); | 1 2 3 | ed the de | 2 14 P |
| | (f | | Harry Carlo | |
| | ·catch ((error) ⇒ { | | | |
| | console error ("error fetchi | ng users: ", en | ror) | |
| | setloading (false); | centur = 1 | ridge filk | |
| | 3); | | <u> </u> | |
| | 3,[1); | | | - |
| | if (loading) { | 1 1 | ecesil each | n, |
| | return Loading users | 2/p > | cotrustano | |
| | } } | | eder in t | |
| | ycturn (| | | |
| | Zdiv> | | il draber j | |
| | Zh2> Userlist | it deskil direct | Name of the second |)· |
| | For Educa | tional Usa | | |
| | WORLD STAR FOR Educa | uonai USE | | |
| | | | | |

| | | · · · · · · · · · · · · · · · · · · · | DATE: | /// |
|---|--|---------------------------------------|--|--------------|
| | STD.:DIV.: | * | PAGE: | |
| | NAME: | ln | | % 7 |
| | 2413 | n was | | \mathbb{X} |
| | Lusers map ((user) => (Lusers map ((user) => (user name} | | | |
| | 11 Key = 1 USER. 100 J | 1. 3. 1. 1 | | / / |
| X - P | 1) 3 | 2 | | -/ |
| | 2/u1> | erease val | 11 No. 10 | _/ |
| | <td>1</td> <td>At .</td> <td>- N</td> | 1 | At . | - N |
| |); | · Read I | med herei | |
| | export default Userlist; | . A letty a | 11 a state | |
| | export delacor control | the lite | noted by and | 7 |
| | Section Server | elfo | First town | |
| | you are developing a simple | | | 2 |
| 2.2. | a liberary of books Ising the | MVC auch | tecture emplement | the |
| | lunctionality to add a new boo | of and d | eplay the list of loo | oks. |
| | Describe how you seperate the | response | vilities between the A | rode |
| | veew, and controller in your | impleme | ntation | - 11 |
| 9ms | · Model (Book. is) | : (min)) | arritealto | - |
| - | class Book { | | (\$ | |
| | constructor (title, author) { | J = (1 | men of Althou | -)- |
| | this . title = title; | 4-212 | 12,113, 102,103 | |
| | this author = author; | (57) | it bowit a Tax | |
| | 3 | | ·/ 11 / | |
| | j | | t (noting) t | |
| | class Library ! | 11 - 1 | | |
| | constructor () + | Latter Part | 73 4000 | |
| | this.books = []; | | Yearly | |
| | } | | e vit. | |
| | addBook (boot) { | <1415 | Ellist reas | |
| | this books push (book); | | | |
| | For Educations | al Use | Add Caper | |
| | W@RLD STAR W@RLD STAR | | | ×41. |
| | | E THAT HAVE A CONTRACT | and the second with the | |

| | NAME; | | STD.: | DIV: | DATE : PAGE : | |
|-----------------|--|---|------------|-------------|--|--|
| | getBooks () | ſ | e les | | | |
| | | | 1 11 | 14.14 | 100 5 800) - 11-5 | |
| | 11 | | | | and the bearing | |
| | 3 | 1 1 1 1 1 | | 1 | 4 | |
| application: 10 | | | | | The forest | |
| | morece, ex | 21.62 | | cirgi o , | Transition of the second | |
| | · Continuite | Librarac | introller. | is) | ne a get cet | |
| | const. f Boo | k. Librar | 4 3 = 700 | inivie C. | (Book); | |
| | const libra | | | | 1.5 | |
| | | | | | author) if | |
| | const boo | | | | | |
| | 11 | | | | actively right | |
| | 3 | | | | Cont & State | |
| | function a | | | | contract of the same | |
| | | | | | unt dil men | |
| | 3 | يل د | | , , , | 5 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | |
| 4 | module exi | ports = { | addbooks | ontroller | ; get Books Controller 3; | |
| | | | : (' | | and a like and | |
| | · view (i) | ndex.ht | ml) | _/ | • | |
| | | | | | oil hodge atte | |
| | - DOCTYPE | html> | | | - halvest | |
| | <html></html> | | | | e' 11 - 11 - 12 - 12 - 12 - 12 - 12 - 12 | |
| | 2body> | | | | | |
| | 2h2> libra | ary <th>2 ></th> <th></th> <th></th> <th></th> | 2 > | | | |
| | Zinput ic | t = "title" | placeh | older="T | itle"> | |
| | Linput ic | d="authe | or" placeh | older = " A | uthos"> | |
| | 2 button of | nclick: | 'add Book | ()"> Add | Book / button > | |
| | <ul id="</th><th>booklist</th><th>">2/ul7 | , | ya - 2 | | | |
| | | | | | | |
| | 11 | | | | | |

For Educational Use

WORLD STAR

| | | | | 4/3 | , |
|--|--|-------|------|-------------|-----|
| | NAME: | STD.: | IV.: | DATE: PAGE: | ii) |
| | <script></td><td></td><td>-</td><td></td><td>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</td></tr><tr><th></th><td>acres for to</td><td>addBook() {</td><td></td><td>1</td><td></td></tr><tr><th></th><td>const title = doc const title = doc await fetch ('/</td><td>ument, act ele</td><td>mant D T / /</td><td>the autor of</td><td>7/</td></tr><tr><th></th><td>const title = do</td><td>cumentatel</td><td>Mexic By Ja (</td><td>'title'). value</td><td></td></tr><tr><th></th><td>await fetch (1/</td><td>add Book! S</td><td>menisy Id (</td><td>'author'), va</td><td>lu.</td></tr><tr><th></th><td>method: PACT</td><td></td><td></td><td>1 1 1 1</td><td></td></tr><tr><th></th><td>headers: {'conte body: Json, strin</td><td>nt-Tupe 12100</td><td></td><td></td><td></td></tr><tr><th></th><td>body: Json, strin</td><td>aifuld Litte</td><td>pucation /</td><td>son 3,</td><td></td></tr><tr><th></th><td></td><td></td><td></td><td></td><td></td></tr><tr><th></th><td>displayBooks ();</td><td>altiel valla</td><td>11 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td><td>17 3</td><td></td></tr><tr><th></th><td>3</td><td>display Books ()</td><td>2 1263</td><td>11 C 1 have 19 5</td><td></td></tr><tr><th></th><td>async function const res = await</td><td>displayBooks ()</td><td></td><td> ·</td><td></td></tr><tr><th></th><td>const res = await</td><td>fetch (1/books</td><td>1)-</td><td>11. 1 . 1 . 3 . 1 · ·</td><td></td></tr><tr><th></th><td>const books = awa</td><td>it res. json ()</td><td>O PALL TO</td><td></td><td>h</td></tr><tr><th></th><td>const list - down list.innerHTML = 1</td><td>rent getelement</td><td>At By Id (book</td><td>(1011)</td><td><u>, te</u></td></tr><tr><th>_ 2</th><td>books for Fach ()</td><td></td><td>J</td><td>LIST</td><td>od</td></tr><tr><th></th><td>books for Each (b = by \$ { b. author }</td><td></td><td>トナニンパンよ</td><td>Ebititle 2</td><td></td></tr><tr><th></th><td></td><td></td><td></td><td></td><td></td></tr><tr><th></th><td>display Books ();</td><td></td><td>1 - K 3 M 413) .</td><td> 6</td><td></td></tr><tr><th></th><td></td><td></td><td>Market 79.1</td><td></td><td></td></tr><tr><th></th><td></html></td><td></td><td>- 1</td><td>100</td><td></td></tr><tr><th></th><td></td><td></td><td>€° ,.</td><td></td><td></td></tr><tr><th></th><td>770.07</td><td>Valr lauthmeth</td><td>Livery I'll</td><td>2</td><td></td></tr><tr><th></th><td>48 1 F. A</td><td>is blocker to mil</td><td>B</td><td></td><td></td></tr><tr><th></th><td>AIA</td><td>- 1 1 month hall</td><td>1.77</td><td>1977</td><td></td></tr><tr><th></th><td></td><td>1.12.</td><td>19 3 1 17</td><td></td><td></td></tr><tr><th></th><td>WMPID STAFF</td><td></td><td></td><td></td><td></td></tr><tr><th></th><td>WORLD STAR" FO</td><td>or Educational Use</td><td></td><td>F</td><td></td></tr><tr><th></th><td><u> </u></td><td>Ear</td><td></td><td>(All)</td><td></td></tr><tr><th></th><td>WORLD STAR</td><td>For Euge</td><td></td><td></td><td></td></tr></tbody></table></script> | | | | |

| | · | | , | | |
|--------------|----------------|-----------------------|-----------------------|---------|--|
| | NAME: | | L | DATE: | |
| 3 | d D:14 | STD.: | DIV.: | PAGE : | |
| | A Differe | ntiate lectureen M | VC, FLUX an | d Red | use |
| | 7 | Mill Harland Will | Light Ation to | A 1 / 1 | 1 10 1 |
| | Feature | MVC (Model-view | Fluse | * 1.1 | Redux. |
| 1.12 | 11 10000 | controller) | Letter Such | 5.101 | r = 1 |
| | and Rose Proce | was their sometimes | d increase la con- | A. | |
| | Archited- | Massic fattern | Unidirectional | data | Consistable state |
| | we | with three compo- | | | container based |
| | | nents : Model, new, | uced by facely | ook fa | on Flux, with |
| | . 17 | controller | | | starter rules |
| Li Company | b-1 | THE REPORT OF | | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| the trade la | Dota. | Bidirectional: | Uniderection | al | Uniductional |
| | flow | , | | × 1. | ************************************** |
| knowled . I | 1 37 - 1001 | 113 1 cm 1 6 min 1 20 | Mathemania to | . (-3.5 | V(1 ×) |
| | State | Each Model holds | Stores hold stat | 1 | Single immuta- |
| * k littlast | Manage- | its oronistale | Dispatcher roord | | ble global state |
| | mend | 1 | updates | . 1. | 415.1 |
| | | | - 19/10 - 1 " (+ ·) | 43.51.5 | 11, - |
| 1 | Scalabili | ti Hard for large | Better, but dis | pat. | Neevy scalable |
| | | apps | cher adds | 1-11: 1 | and predictable |
| , , | | | complexity. | .7 | tary r |
| 7 6 1 | rollo e | | Parish + Atomy Je. | , ^ | -14: |
| | Pelouggin | g Hareder due to | easier with | £ 1 1 | Voly easy, |
| | | multiple updates | unidirectional | flow | supporte time - |
| 7 1 1 | returns inch | Jida stell. | iliniaster. | | varied debugging |
| | ://IA =: | 6-1-04 | · NIGHT STOR | 1 +11 5 | 200 1 |
| | Usage | General appe, | Common in Read | | Mostly with |
| | | not Read specific | 5 1 1 m | 100 NR | leach, can be |
| | | | - 1 1 4 () - 1 × () | 110 4 | used elsewhere. |
| | - | , | playment of | Mr. Fly | 1 + / |
| | WORLD STAR | For Educati | ional Use | 4.7.4. | · · · |
| S L '5L | W. | | | | And the second s |
| | | | | | The state of the s |

| | PAGE: |
|---|--|
| | NAME: STD.: DIV.: |
| 9.4. | you are building a React application that manage |
| | shopping caret with multiple products. Use Redux to make |
| | the state of the cast, including adding, sumoreing, and |
| | updating items Implement the Reduse Store, actions & |
| | reducers and explain how Redux helps in managing slate |
| I a I I a V Is | across the application |
| Ans | 1. Actions (cart Actions, is) |
| LALL DO | export const ADD_ITEM = "ADD_ITEM"; |
| 211111 | export const REMOVE_ITEM = "REMOVE_ITEM". |
| r . 7.5 . 1 +. | export const UPDATE ITEM "UPDATE TIEM". |
| | item }). |
| | export longt von Ti |
| r. Treater | export const removeItem = (id) > (& type: REMOVE_ITEM, paylor: id }); |
| Note lest | export const update Them = (Hem) > (S) |
| | export const update I tem = (item) => (ftype: UPDATE - ITEM, payload; item }); |
| | 2. Reducer (cart Reducer. is) |
| Darest | import (ADD_ITEM, REMOVE_ITEM, UPDATE_ITEM & from ". / |
| mid - i . | tart raions |
| | const initialstate = { cart; [] }; |
| | export const cart Reducer = (state = initial state, action) => 1 |
| * * * * * * | Switch cación type 1 |
| the second | Case ADD ITEM |
| 4 | return f. state, cart: [state cart, action payload] }: case REMOVE_ITEM; |
| 114. | |
| 10 10 | return fragload) }; |
| r - 1 | case UPDATE - ITEM: |
| | return { |
| | ···state, |
| | WORLD STAR For Educational Use |
| | H 1.5 |

| | | Steen - 150 170 | | |
|---------|--|--|---|---------|
| | NAME:STD. | | DATE: | |
| | 310.: | | PAGE: | |
| TO VIEW | cart state cart map (is | > 1:1d = == action. | Pauloadid 2 act | ion. |
| 1121 0 | | the control of the co | 1 14011 00 00 | |
| 7. | LA CALLER OF THE PARTY OF THE P | Line you se | * * · · · · · · · · · · · · · · · · · · | |
| | default: return state; | , | 110000000000000000000000000000000000000 | |
| | i sison I have | | Herman A (A | |
| 1102 20 | to Jan trading to part | Hon wanted | 1-11-11-1-1-1 | |
| | | 1 | 1 Kg 1 Kg 1 Kg 1 Lg | |
| | | | | |
| | | 4 | | |
| 9.5 | Given a complex web | application, beloke | se a strategy Us | ing |
| | advanced React features | like Ref and | Hooks to man | age |
| | component states across | multiple layers | Explain the le | enifite |
| | of this approach. | | | V |
| ans | , , , | | | |
| 0 | strategy Using Advance | ed react feature | <i>i</i> · | |
| | i) Use usestate & use Redu | | | |
| | management within con | nponente | · | |
| | ii) use useContext to pero | / | to deeply nes | ted |
| | components without poid | deutling | | |
| | componente without prof | values across en | nder leg form. | inkits |
| | timers without tougger | ing re-renders. | | |
| | iv) Use custom Hooks to | eneapsulate re | esable logic ac | 2038 |
| | multiple components | | 0 | |
| | v) Combine with use Effect | t for side effect | 2 like API calls | or |
| | syncing state high exter | nal sources. | V | |
| | The state of the s | | | |
| _ | Pearly to | | | |
| • | Benefits: | | | |
| | | | | |
| | | | | |
| | Men D CTAD For Edi | ucational Use | | |
| | WERLD STAR FOR Edi | | | |
| 11 | | | | |

W.

| Y | |
|----------|--|
| | NAME: STD.: DIV.: PAGE: |
| | |
| | i) centralized and friedictable state management. |
| | ii) Reduces prop duling and improves code readability |
| | iii) afficient ere-renders by solating updates to affected |
| | |
| | i) Reusable logic via custom Hooks V) Reusable logic via custom Hooks |
| | v) Persistent references with vse Ref without unnecessary |
| | |
| | |
| £ .3),1) | the first and a plant material and the sale of the first |
| 13 | the at a should have followed by the broken of |
| 1 | oft here's a count objettion multiple languages |
| | in mouth in the many |
| | U, R |
| | - in the court during dames and pro- distance of |
| A . | the relation of the state of th |
| | the transfer at the meters of the transfer of the |
| in att. | a reflect in elate landara aldurant at tristantine and the |
| , | Bullion of its treation it constrains |
| Mishmo. | Joseph Jerians Land & Mules rivered at miner sally (iii) |
| | water the property of the line of the stage of |
| 11011725 | agent absences atministers of a court within ash (it |
| | the rainer sightens |
| do el | a 194 see et et et de la la jestiment lieu avident les |
| | and the state of t |
| | |
| | |
| | |
| | |