Group 20

Black Box Testing

Sign-up Page:

Conditions				Output
Username	**Email**	**Password**	**Confirm Password**	
valid	valid	valid	Same as password	Directed to Login Page
valid	valid	valid	Not same as password	Username, password or email is incorrect
valid	valid	Invalid	Same as password	Username, password or email is incorrect
Invalid	valid	valid	Same as password	Username, password or email is incorrect
Valid	Invalid	valid	Same as password	Username, password or email is incorrect

Data Testing:

Equivalence Partition:

Username	Email	Password	Confirm Password	Expected Output	Displayed Output
HwakEye	ruchir@gmail.com	Ruchir@12345	Ruchir@12345	Directed to Login Page	Directed to Login Page
HawkEye	ruchir@gmail.com	Ruchir@12345	Ruchir@123	Error	Username, password or email is incorrect
HwakEye	ruchir@gmail.com	ruchir	ruchir	Directed to Login Page	Username, password or email is incorrect
HawkEye@1	ruchir@gmail.com	Ruchir@12345	Ruchir@12345	Directed to Login Page	Username, password or email is incorrect
HwakEye	ruchir@com	Ruchir@12345	Ruchir@12345	Error	Username, password or email is incorrect

Boundary Value Analysis:

Username	Email	Password	Confirm Password	Expected Output	Displayed Output
HwakEye	ruchir@gmail.com	Password does not contains at least one uppercase, lower case, special character and numeric value	Same as password	Directed to Login Page	Username, password or email is incorrect
HwakEye	ruchir@gmail.com	Password length less than 8 or greater than 24	Same as password	Directed to Login Page	Username, password or email is incorrect
Username length less than 4 or greater than 15	ruchir@gmail.com	Ruchir@1234	Ruchir@1234	Directed to Login Page	Username, password or email is incorrect
Username contains special characters other than "_"	ruchir@gmail.com	Ruchir@1234	Ruchir@1234	Directed to Login Page	Username, password or email is incorrect
Valid Username with exact 4 or exact 15 length	ruchir@gmail.com	Ruchir@1234	Ruchir@1234	Directed to Login Page	Directed to Login Page
HwakEye	ruchir@gmail.com	Valid password with exact length of 8 or 24	Same as password	Directed to Login Page	Directed to Login Page

HwakEye	ruchir@gmail.com	Valid password with exact length of 8 or 24	Not same as password	Error	Username, password or email is incorrect
HwakEye	ruchir darj@gmail.comi	Valid password with exact length of 8 or 24	Same as password	Directed to Login Page	Username, password or email is incorrect
Valid Username with exact 4 or exact 15 length	ruchir@gmail.com	Valid password with exact length of 8 or 24	Same as Password	Directed to Login Page	Directed to Login Page
Any valid username	Already used once in creating an account	Any valid password	Same as password	Directed to Login Page	Account already exists on this email
Username is already used by someone else	Any valid	Any Valid	Same as password	Directed to Login Page	Username already exists

Login Page:

Conditions		User Login	Admin Login
Username	**Password**		
valid	valid	Directed to Home Page	Directed to Home Page
valid	Invalid	Username or password incorrect	Username or password incorrect
Invalid	valid	Username or password incorrect	Username or password incorrect
Invalid	Invalid	Username or password incorrect	Username or password incorrect
Not registered	Valid / Invalid	Username or password incorrect	Username or password incorrect

Data Testing:

Equivalence Partition:

Username	Password	Expected Output	Displayed Output
HwakEye	Ruchir@12345	Directed to Home Page	Directed to Home Page
HawkEye@1	Ruchir@12345	Error	Username or password incorrect
HwakEye	ruchir	Error	Username or password incorrect
HwakEye	Ruchir	Error	Username or password incorrect
HwakEye	Empty (nothing entered)	Error	Username or password incorrect
HwakEye	ABcd@efg123456789hijklmnopqrstuvwxyz	Error	Username or password incorrect
HwakEye_1	Ruchir@1234	Directed to Home Page	Directed to Home Page

Boundary Value Analysis:

Username	Password	Expected Output	Displayed Output
HwakEye	Password does not contains at least one uppercase, lower case, special character and numeric value	Error	Username or password incorrect
HwakEye	Password length less than 8 or greater than 24	Error	Username or password incorrect
Username length less than 4 or greater than 15	Ruchir@1234	Error	Username or password incorrect
Username contains special characters other than "_"	Ruchir@1234	Error	Username or password incorrect
Valid Username with exact 4 or exact 15 length	Ruchir@1234	Directed to Home Page	Directed to Home Page
HwakEye	Valid password with exact length of 8 or 24	Directed to Home Page	Directed to Home Page
User is not registered	Valid / Invalid	Error	Username or password incorrect

Solving crossword:

User's Horizontal Answer	User vertical answer	Correct Horizontal Answer	Correct vertical answer	Output
DOG	COW	DOG	COW	Congratulations, correct answers
dog	cow	DOG	COW	Congratulations, correct answers
User's answer != correct horizontal answer	User's answer != correct vertical answer	DOG	COW	Answers are not correct. Try again
Input is not case sensitive (e.g., DoG)	Input is not case sensitive (e.g., cOw)	DOG	COW	Congratulations, correct answers
Empty box left (not written full answer or even one box is left empty)	COW	DOG	COW	Answers are not correct. Try again
DOG	Empty box left (not written full answer or even one box is left empty)	DOG	COW	Congratulations, correct answers
Empty box left (not written full answer or even one box is left empty)	Empty box left (not written full answer or even one box is left empty)	DOG	COW	Answers are not correct. Try again
@13 _	#$-	DOG	COW	Answers are not correct. Try again

Users can enter any type of input (e.g space, special character like @,# or numerical data, etc) in the answer box but if it does not match the correct answer it will show "Answers are not correct. Try again"

Automatic Crossword Creation:

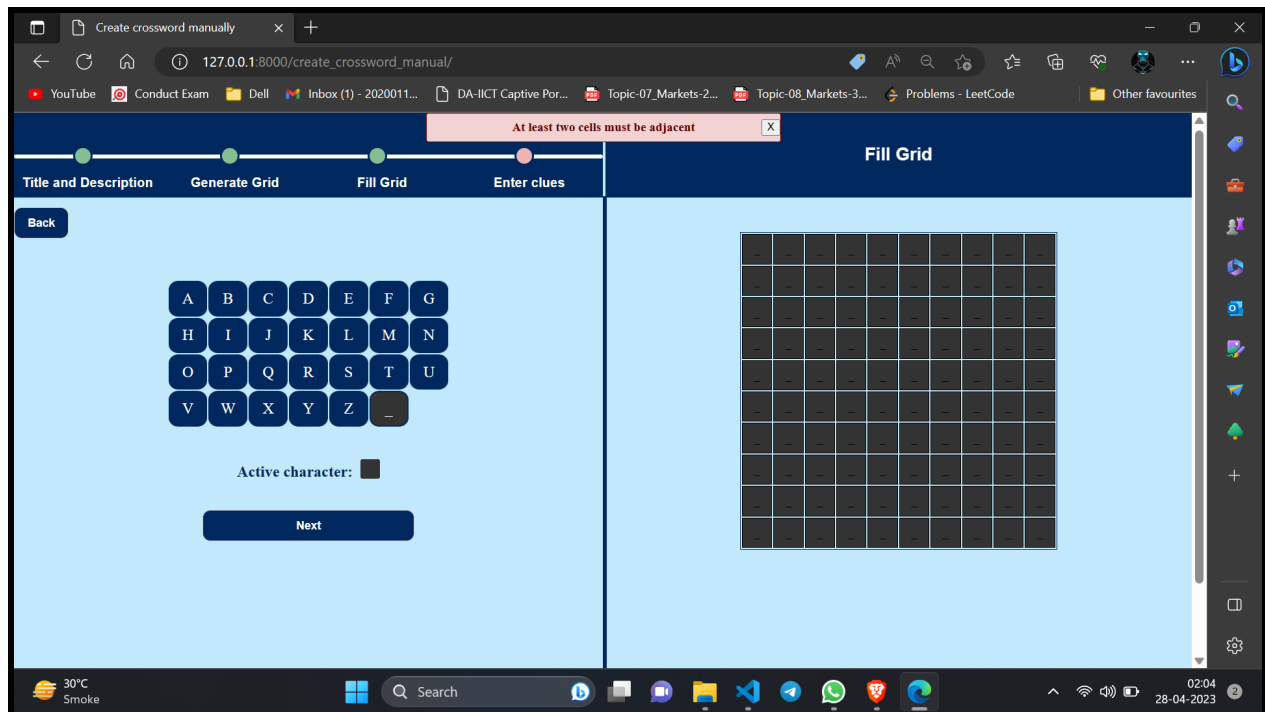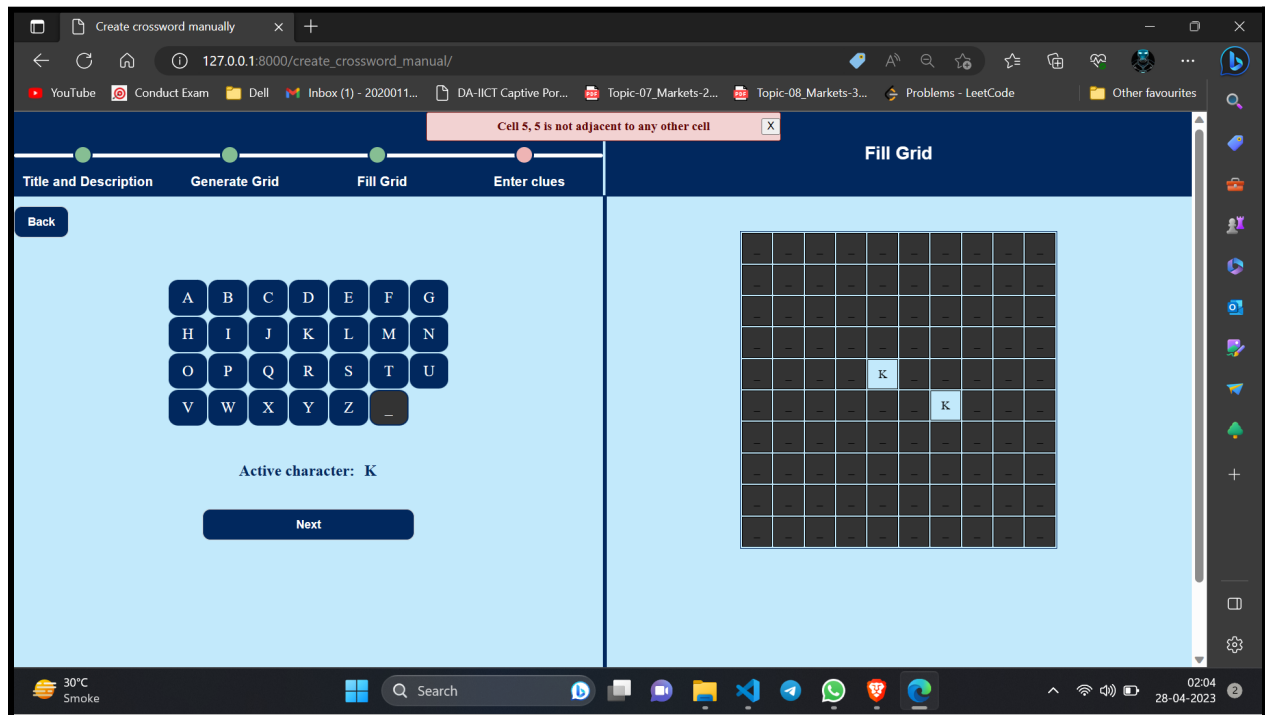| Title	Description	New Word	New Clue	Displayed Output
Course	Subjects	MATHS	Calculation	Save - Crossword saved successfully
Course	Subjects	Maths	Calculation	Error - All words should be in caps
Empty (nothing is written)	Subjects	-	-	Error: Please enter title or description
Course	Empty	-	-	Error: Please enter title or description
Empty	Empty	-	-	Error: Please Enter title or description
Course	Subjects	MATHS	Empty (nothing is written)	Save - Error: Please enter a clue.
Course	Subjects	123Maths	Calculation	Save - Error: Words should only contain alphabets.

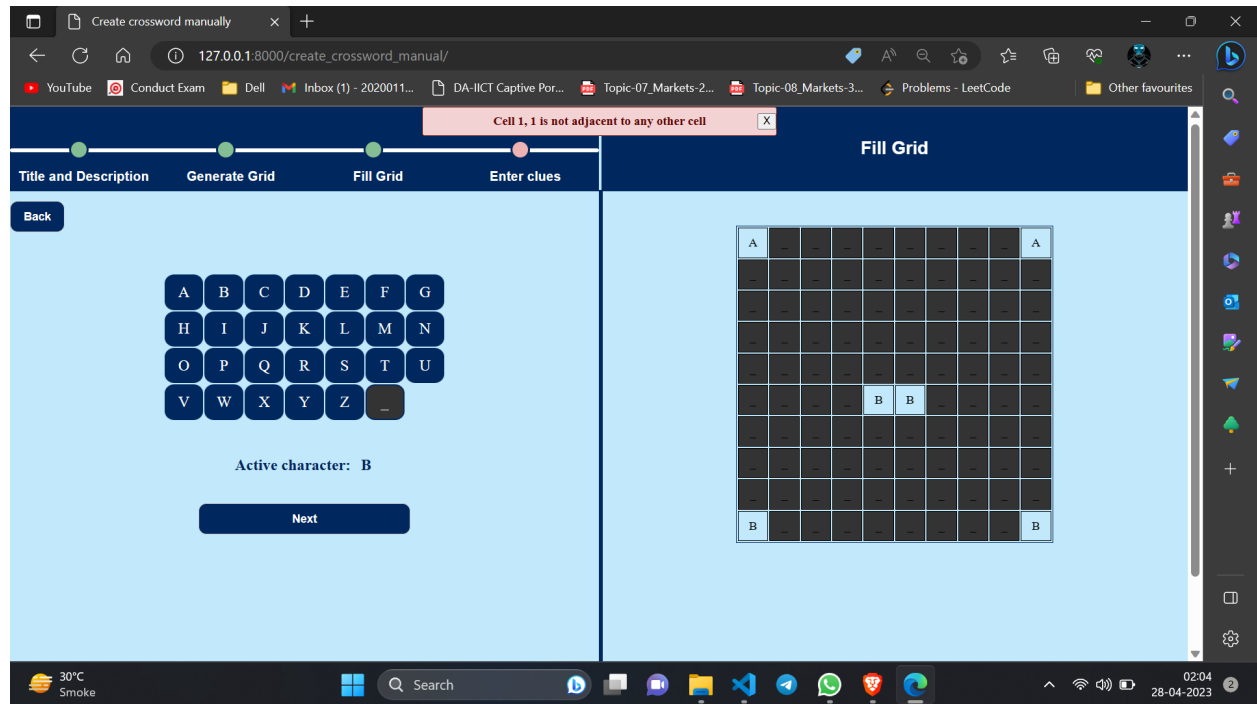| Course	Subjects	@Maths	Calculation	Save - Error: Words should only contain alphabets.
Course	Subjects	Phy sics	Newton	Save - Error: Words should only contain alphabets.
Course1	Subjects	MATHS	Calculation	Save - Crossword saved successfully
Course@1	Subjects	MATHS	Calculation	Save - Crossword saved successfully
Course	Subjects that professor @1 is teching	MATHS	Calculation	Save - Crossword saved successfully

- Title can only include alphabets and numerical values while description can include everything (numbers, alphabets, special characters, etc).
- Words should only include alphabets from A-Z that too in uppercase only. Space, numbers, special characters and any other thing are not allowed.

Manual Crossword Creation:

Title	Description	Rows	Columns	Horizontal Words	Vertical Words	Horizontal Clues	Vertical Clues	Output
Empty (Nothing is written)	ABCD	-	-	-	-	-	-	Error: Please enter Title
Cars	Empty (Nothing is written)	-	-	-	-	-	-	Error: Please enter description
Cars	Amazing Automobile Cars	0	10	-	-	-	-	Error: Number of rows should be greater than 3
Cars	Amazing Automobile Cars	10	0	-	-	-	-	Error: Number of columns should be greater than 3
Cars	Amazing Automobile Cars	11	11	Lamborghini	Porsche	Empty (Nothing is written)	Porsche	Error: Clues are empty
Cars	Amazing Automobile Cars	11	11	Lamborghini	Porsche	Lamborghini	Empty (Nothing is written)	Error: Clues are empty
Cars	Amazing Automobile Cars	11	11	Lamborghini	Porsche	Lamborghini	Porsche	Save - Saved Successfully

Other Edge Cases for Manual Crossword Creation:

This edge case prevents users from entering single letter words.