

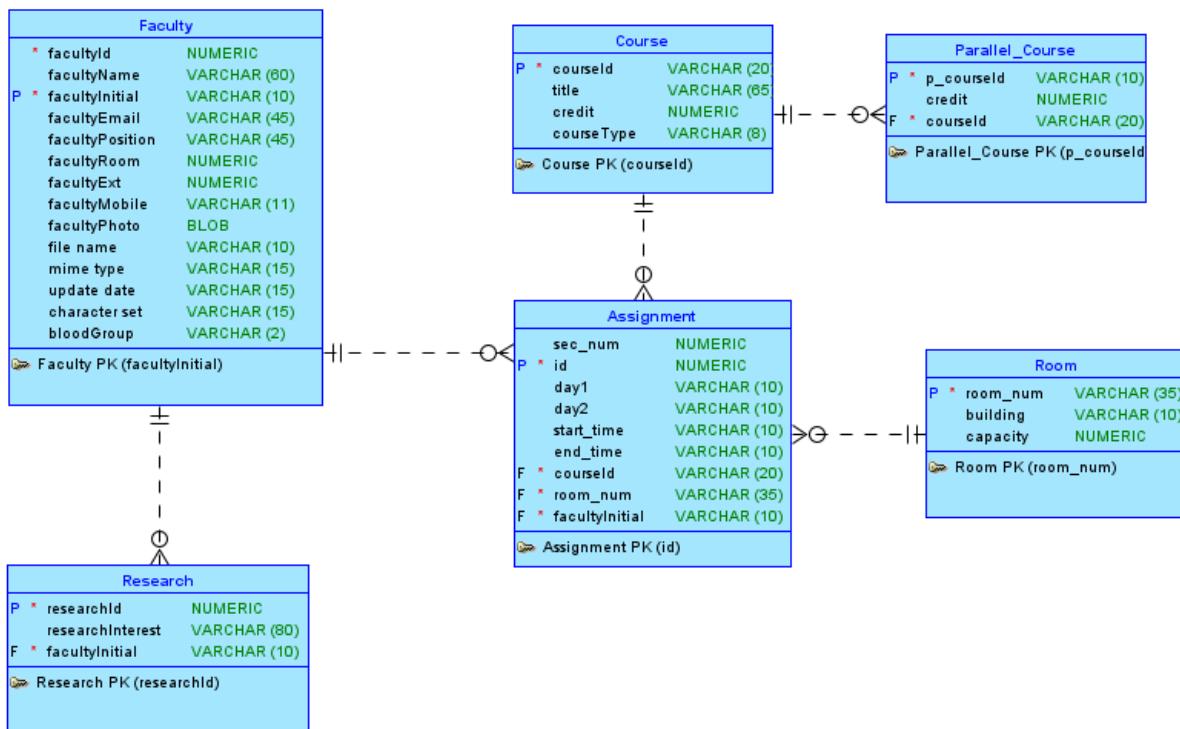
University Faculty Advising

Project

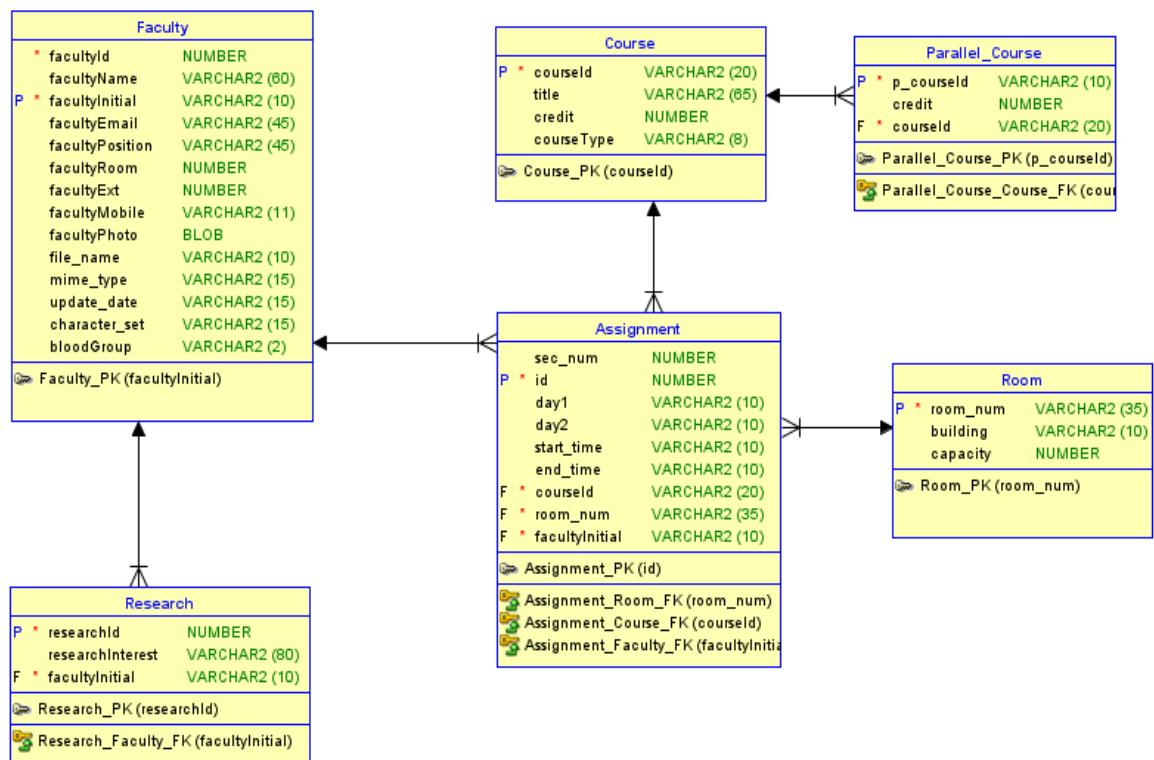
Link: https://apex.oracle.com/pls/apex/r/term_project_cse302/university-faculty-advising/char?session=13985980845215

APPLICATION ID: 205620

1. Final Version of the Relational Data Model of the Project



2. Final Version of the Relational Data Model of the Project



3. Implementation Checklist

Description	Remarks
Project ID	205620
Workspace Name	term_project_cse302
Workspace Email	pjts10162019@gmail.com
Workspace Password	projectcsepjts
Authentication Type	Custom
Username and Password to Login	Name: ADMIN ; Pass: admin123 (admin)
Username and Password to Login	Name: TJ ; Pass: tj1234 (admin)
Username and Password to Login	Name: DMRH ; Pass: dmrh1234 (admin)
Username and Password to Login	Name: MHAK ; Pass: mhak1234 (contributor)
Username and Password to Login	Name: NYA; Pass: nya1234 (contributor)
Username and Password to Login	Name: DAWR ; Pass: dawr1234 (contributor)
Username and Password to Login	Name: MI ; Pass: mi1234 (contributor)
Username and Password to Login	Name: MAR ; Pass: mar1234 (contributor)
Username and Password to Login	Name: DMAZ ; Pass: dmaz1234 (contributor)
Username and Password to Login	Name: DAKP ; Pass: dakp1234 (contributor)
Username and Password to Login	Name: SJ ; Pass: sj1234 (contributor)
Username and Password to Login	Name: DSU; Pass: dsu1234 (contributor)
Username and Password to Login	Name: ALI ; Pass: ali1234 (contributor)
Username and Password to Login	Name: MKR; Pass: mkr1234 (contributor)
Username and Password to Login	Name: MRAR ; Pass: mrar1234 (contributor)
Username and Password to Login	Name: DMIM ; Pass: dmim1234 (contributor)
Username and Password to Login	Name: DAHF; Pass: dahf1234 (contributor)
Username and Password to Login	Name: DAKC; Pass: dakc1234 (contributor)
Username and Password to Login	Name: RDA; Pass: rda1234 (contributor)
Username and Password to Login	Name: TM; Pass: tm1234 (contributor)
Username and Password to Login	Name: SHK; Pass: shk1234 (contributor)
Username and Password to Login	Name: MKN; Pass: mkn1234 (contributor)
Username and Password to Login	Name: MDH; Pass: mdh1234 (contributor)
Username and Password to Login	Name: MMSU; Pass: mmsu1234 (contributor)
Username and Password to Login	Name: JAO; Pass: jao1234 (contributor)
Username and Password to Login	Name: DAKC; Pass: dakc1234 (contributor)
Username and Password to Login	Name: IMRAN; Pass: imran1234 (contributor)
Username and Password to Login	Name: SDIS; Pass: sdis1234 (contributor)
Username and Password to Login	Name: KHALID; Pass: khaid1234 (contributor)
Username and Password to Login	Name: AMITM; Pass: amitm1234 (contributor)

Uploaded and Displayed Images in Reports	yes
Implemented Page-wise Authorization	yes
Number of Reports with Forms	06
Number of Master-detail Forms	02
Number of Reports based on Queries, Aggregate Queries	0
Number of Parameterized Reports	04
Number of Graphs/Charts	3
Other features	Interactive report with form, Chart, Pie-chart, Changed the background of login page, home page, Changed the logo of the system. Changed icons of the pages. Colour changing. Advance master Detail, Delete features
Write the most unique feature/functionality in your application or the page of your application that you are proud of. Explain briefly.	The interface of the project.

4. Reports with Forms

Interactive report with form	Table
5- Faculty Information	Faculty
8- Course Information	Course
20- Classroom Information	Room
21- Parallel Course Information	Parallel Course
25- Course Faculty Assignment	Assinment
32- Research Information	Research Project

Faculty Information

Faculty Name	Faculty Initial	Faculty Email	Faculty Position	Faculty Ext	Faculty-room	Faculty Mobile	Faculty Photo	Blood Group	Total Credits Taken
Dr. Anup Kumar Paul	DAKP	anuppaul@ewubd.edu	Associate Professor	117	445	0163222416		AB+	0
Prof. Dr. Md. Nawab Yousuf Ali	NYA	nawab@ewubd.edu	Professor	104	644	01917119022		O-	0
Dr. Anisur Rahman	MAR	anis@ewubd.edu	Associate Professor	256	629	0171504090		AB+	3

Input Faculty Information

Faculty Name
Dr. Anup Kumar Paul

Figure 4.1: Faculty Information

Course Information

Course Code	Title	Credit	Course Type
CSE412	Software Engineering	3	MC
ICE216	Signals and Systems	3	
CSE110(LAB)	Object Oriented Programming	1.5	LAB
CSE103	Structured Programming	3	Core
CSE106	Discrete Mathematics	3	Core
CSE227	Numerical Methods and Computer Programming	3	OD
CSE347	Information System Analysis and Design	3	Core
CSE366	Artificial Intelligence	3	MC
CSE405	Computer Networks	3	Core
CSE487	Cyber Security, Ethics and Law	3	Core
		1.5	Core

Course

COURSE CODE

Title

Credit

Coursetype

Create

COURSE CODE

Title

Credit

Coursetype

Create

Figure 4.2: Course Information

Classroom Information

	Room No	Building	Capacity
Edit	217	MAIN	30
Edit	Electronics Lab	MAIN	30
Edit	113	MAIN	30
Edit	533 (C. Lab-3)	MAIN	30
Edit	219	MAIN	30
Edit	430	MAIN	30
Edit	112	MAIN	30
Edit	FUB-203	FUB	30
Edit	435	MAIN	30
Edit	FUB-402	FUB	30
Edit			30

Create

Classroom

	Capacity
<input type="text" value="Room No"/>	30
<input type="text" value="Building"/>	30
<input type="text" value="Capacity"/>	30
Cancel	Create
Edit	FUB-203
Edit	435
Edit	FUB-402
Edit	

Figure 4.3: Classroom Information

Parallel Course Information

	Parallel Course Code	Credit	Course Code
<input type="checkbox"/>	ICE204	3	CSE106
<input type="checkbox"/>	ICE103	4	CSE103
<input type="checkbox"/>	ICE217	4	CSE345
<input type="checkbox"/>	ICE302	4	CSE405
<input type="checkbox"/>	ICE474	3	CSE420
<input type="checkbox"/>	ICE453	3	CSE487
<input type="checkbox"/>	ETE450	3	CSE487
<input type="checkbox"/>	ETE310	3	ICE310
<input type="checkbox"/>	ICE316	4	ICE313
<input type="checkbox"/>	ETE313	4	ICE313
<input type="checkbox"/>			ICE448

Parallel Course

PCourse Code
Credit
Course Code

	Course Code
<input type="checkbox"/>	CSE106
<input type="checkbox"/>	CSE103
<input type="checkbox"/>	CSE345
<input type="checkbox"/>	CSE405
<input type="checkbox"/>	CSE420
<input type="checkbox"/>	CSE487
<input type="checkbox"/>	CSE487
<input type="checkbox"/>	ICE310
<input type="checkbox"/>	ICE313
<input type="checkbox"/>	ICE313
<input type="checkbox"/>	ICE448

Figure 4.4: Parallel Course Information

The screenshot displays two views of a course management system:

COURSE FACULTY ASSIGNMENT

This view shows a table of assigned faculty for various courses. The columns include Faculty Initial, Course Code, Section No, Day1, Day2, Start Time, End Time, and Classroom.

Faculty Initial	Course Code	Section No	Day1	Day2	Start Time	End Time	Classroom
MDH	CSE302(LAB)	2	Monday		8:00 AM	10:00 AM	Database LAB
TBA	CSE101	9	Monday	Wednesday	11:50 AM	1:20 PM	ICS LAB
DMAZ	CSE106	4	Sunday	Tuesday	1:30 PM	3:00 PM	FUB-403
DMAZ	CSE106	5	Sunday	Tuesday	3:10 PM	4:40 PM	FUB-401
DAHF	CSE103	9	Tuesday	Thursday	11:50 AM	1:20 PM	110
MHAK	CSE106	2	Sunday	Tuesday	1:30 PM	3:00 PM	AB3-401
MAR	ICE401	7	Monday	Wednesday	10:10 AM	11:40 AM	FUB-401
DAHF	CSE103(LAB)	9	Tuesday		8:00 AM	12:10 PM	534 (C. Lab-4)
TM	CSE110	4	Sunday	Tuesday	10:10 AM	11:40 AM	531
TBA	CSE101	3	Sunday	Tuesday	10:10 AM	11:40 AM	ICS LAB

COURSE ASSIGNING

This view shows a form for creating new assignments. It includes fields for Faculty Initial, Course Code, Section Number, Day 1, Day 2, Start Time, End Time, and Classroom.

Figure 4.5: Course Faculty Information

Research Information

Research Topic	Faculty Initial
Reversible/Quantum Logic	MHAK
Machine Learning	NYA
Radio frequency identification (RFID)	DAWR
Radio wave propagation	DAWR
Wireless sensor network	DAWR
Optimization	DAWR
Texture Analysis	TJ
Wireless Communications and Networks	MI
Big Data	DMRH
Multiple-Valued Logic	MHAK

Research Data

Faculty Initial
MHAK
NYA
DAWR
DAWR
DAWR
DAWR
TJ
MI
DMRH
DMAZ
DAKP

Figure 4.6: Research Information

5. Master-Detail Form (Advance)

Page Number and Name	Master Table (Parent)	Detail Table (Child1)	Detail Table (Child2)
7- Faculty Drop Course	Faculty	Assinment	course
8- View Research Project	Faculty	Research	

Faculty Drop Course

Faculty Information

Faculty Initial	TJ
Facultyid	1611
Faculty Name	Dr. Taskeed Jabid
Faculty Email	taskeed@ewubd.edu
Faculty Position	Associate Professor & Chairperson
Faculty Ext	221
Faculty Room	642
Faculty Mobile	01763704545
Blood Group	B-
Tot Cred	10

Current Course List

Course Code	Section Number	Day1	Day2	Start Time	End Time	Classroom	Action
CSE101(LAB)	14	Monday		8:30 AM	10:00 AM	107	Delete
CSE103	3	Sunday	Tuesday	11:50 AM	1:20 PM	107	Delete
CSE103	4	Monday	Wednesday	11:50 AM	1:20 PM	108	Delete
CSE103(LAB)	3	Tuesday		1:30 PM	3:00 PM	529 (C. Lab-1)	Delete
CSE103(LAB)	4	Monday		4:50 PM	6:10 PM	534 (C. Lab-4)	Delete

Release 1.0

Figure 5.1: Faculty Drop Course

View Research Project

Faculty Information

Facultyinitial	DAWR
Facultyname	Dr. Ahmed Wasif Reza
Facultyemail	wasif@ewubd.edu
Facultyposition	Professor
Facultyext	394
Facultyroom	646
Facultymobile	01780099173
Bloodgroup	A-
Tot Cred	0

Research Topics:

- Radio frequency identification (RFID)
- Radio wave propagation
- Wireless sensor network
- Optimization
- Artificial Intelligence/Machine Learning
- Wireless communications
- Biomedical and Neurological image processing/imaging
- Bioinformatics

Figure 5.2: View Research Project

6. Parameterized Reports

Page Number and Name	Given Input	Report description
2- Faculty Wise Routine	Faculty Initial	Course schedule
19-Course Wise Routine	Course Code	Course Details
12- Classroom Schedule	Classroom	Classroom Information
51- View Parallel Course	Faculty Initial	Parallel Course Information

The screenshot shows a software application interface for managing faculty routines. On the left is a vertical navigation menu with the following items:

- Home
- Faculty Information
- Course Information
- Classroom Information
- Parallel Course Information
- Course Faculty Assignment
- Faculty Drop Course
- Faculty Wise Routine** (highlighted in red)
- Course Wise Routine
- Classroom Schedule
- Blood group summary
- Chart

The main content area has a teal header "paramiterize report-1". Below it, there are two sections: "Faculty Information" and "Schedule".

Faculty Information:

faculty Initial	DMRH
FACULTY NAME	Dr. Mohammad Rezwanul Huq

Schedule:

Day	Course	Sec No	Credit	Classroom	Time Schedule
Monday - Wednesday	CSE302	2	3	217	1:30 PM - 3:00 PM
Sunday -	CSE302(LAB)	1	1.5	Database LAB	1:30 PM - 4:30 PM
Sunday - Tuesday	CSE302	1	3	217	10:10 AM - 11:40 AM

At the bottom of the interface are several buttons: Home, App 205620, Page 2, Session, Debug, Quick Edit, Customize, and settings.

Figure 7.1: Faculty Wise Routine

The screenshot shows a software application interface for managing course routines. On the left is a vertical navigation menu with the following items:

- Home
- Faculty Information
- Course Information
- Classroom Information
- Parallel Course Information
- Course Faculty Assignment
- Faculty Drop Course
- Faculty Wise Routine** (highlighted in red)
- Course Wise Routine
- Classroom Schedule
- Blood group summary
- Chart

The main content area has a teal header "paramiterize report-2". Below it, there are two sections: "Course" and "Course Details".

Course:

Course Code	CSE302
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Course Details:

Faculty Initial	Sec No	Classroom	Credit	Day	Time Schedule
DMRH	2	217	3	Monday - Wednesday	1:30 PM - 3:00 PM
DMRH	1	217	3	Sunday - Tuesday	10:10 AM - 11:40 AM

At the bottom of the interface are several buttons: Home, App 205620, Page 19, Session, Debug, Quick Edit, Customize, and settings. A page number "1 - 2" is also visible at the bottom.

Figure 7.2: Course Wise Routine

The screenshot shows a web application interface for managing classroom schedules. On the left is a dark sidebar with various menu items. The main area has a teal header "Classroom Schedule". Below it is a "Classroom Details" section with a form containing "Classroom No" set to "108" and a "SUBMIT" button. The next section is "Classroom Information" with a table:

Course ↑	FacultyInitial	Day	Time Schedule	Sec Num
CSE103	TJ	Monday - Wednesday	11:50 AM - 1:20 PM	4
CSE106	DSU	Sunday - Tuesday	8:30 AM - 10:00 AM	15

At the bottom of the page are standard navigation icons.

Figure 7.3: Classroom Schedule

The screenshot shows a web application interface for viewing parallel courses. The sidebar includes "Parallel Course Information" and "View Parallel Course" under the "View Research Project" section. The main area has a teal header "View Parallel Course". Below it is a "Faculty Information" section with a form containing "Faculty Initial" set to "TJ" and a "SUBMIT" button. The next section is "Relavent Parallel Course" with a table:

Parallel Course ↑	Courseid
CSE105	CSE103
ICE103	CSE103

At the bottom of the page are standard navigation icons.

Figure 7.4: View Parallel Courses

7. Charts and Other Pages

Page Number and Name	Chart description
23- Faculty Wise Chart	The bar chart shows that how many numbers of course are taken by which faculty
13- Pie Chart	The pie chart shows the blood group of Faculty
23- Research Paper	The bar chart shows that which faculty is working on how many research project.



Figure 8.1: Faculty Wise Routine

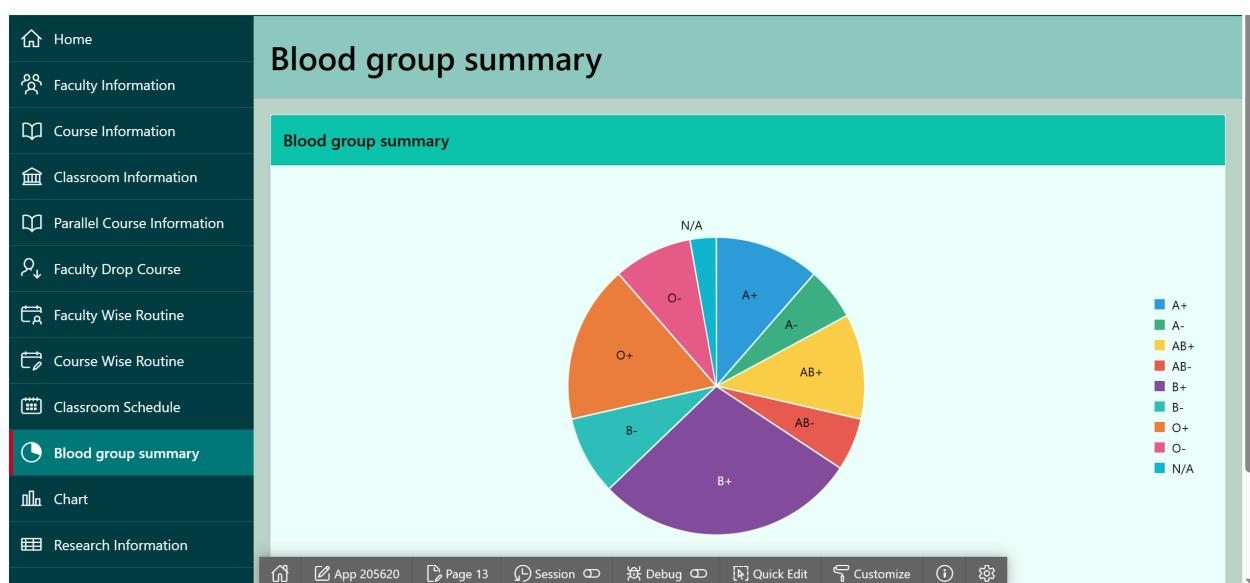


Figure 8.2: Blood Group Summary

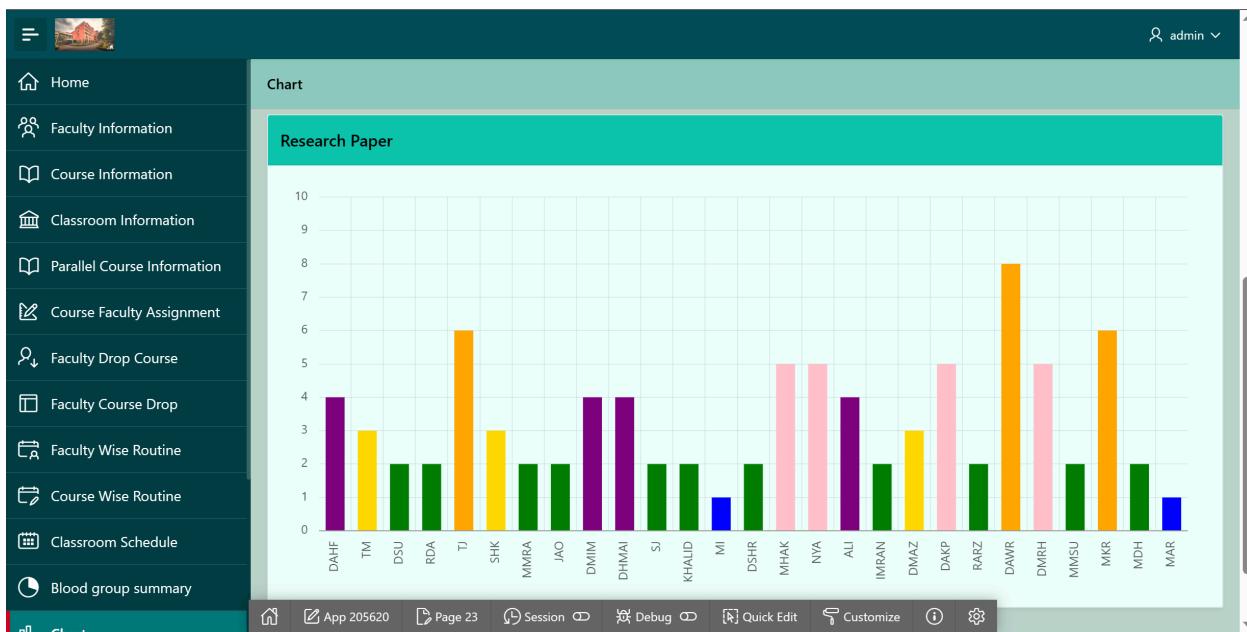


Figure 8.3: Research Paper

8. Authorization and User Role Assignment

User Role Assignment :

User name	Password	Role
ADMIN	admin123	Administrator
DMRH	dmrh1234	Administrator
TJ	tj1234	Administrator
MAR	mar1234	Contributor
PJTS	pjts1234	Reader

Page-wise Authorization Information:

Page number and name	Authorization Level
P1. Home	Reader
P5. Faculty Information	Contributor CREATE(Button)- Administrator
P8. Course Information	Contributor CREATE(Button)- Administrator
P20. Classroom Information	Contributor CREATE(Button)- Administrator
P21. Parallel Course Information	Contributor CREATE(Button)- Administrator

P25. Course Faculty Assignment	Administrator (link hide from others)
P7. Faculty Drop Course	Contributor (Link hide from readers)
P2. Faculty Wise Routine	Contributor
P19. Course Wise Routine	Contributor
P12. Classroom Schedule	Contributor
P13. Blood Group Summary	Reader
P23. Chart	Reader
P32. Research Project	Reader
P38. View Research Project	Reader
P42. View Parallel Course	Contributor (link hide from reader)
P1000. Administration	Administrator (link hide from others)

9. Concluding Remarks

Our project purpose was to develop an APEX-based application to assign courses to the faculty members.

Here we used SQL developer to create a DDL file then used ORACLE Apex to build the application.

On this project we worked all together. Every page has been touched by everyone. We learned how to create parameterized reports, adding charts, icon editing, etc.

We enjoyed working on this project together and sharing the learning process. It was a great experience to learn about group skills. It helped to improve our skills.