



STUDENT TASK & PROJECT MANAGEMENT TOOL

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MAIN FEATURES & USER FLOWS

SCENARIO 1

USER CREATES PROJECT,
TASK, COMMENT

SCENARIO 3

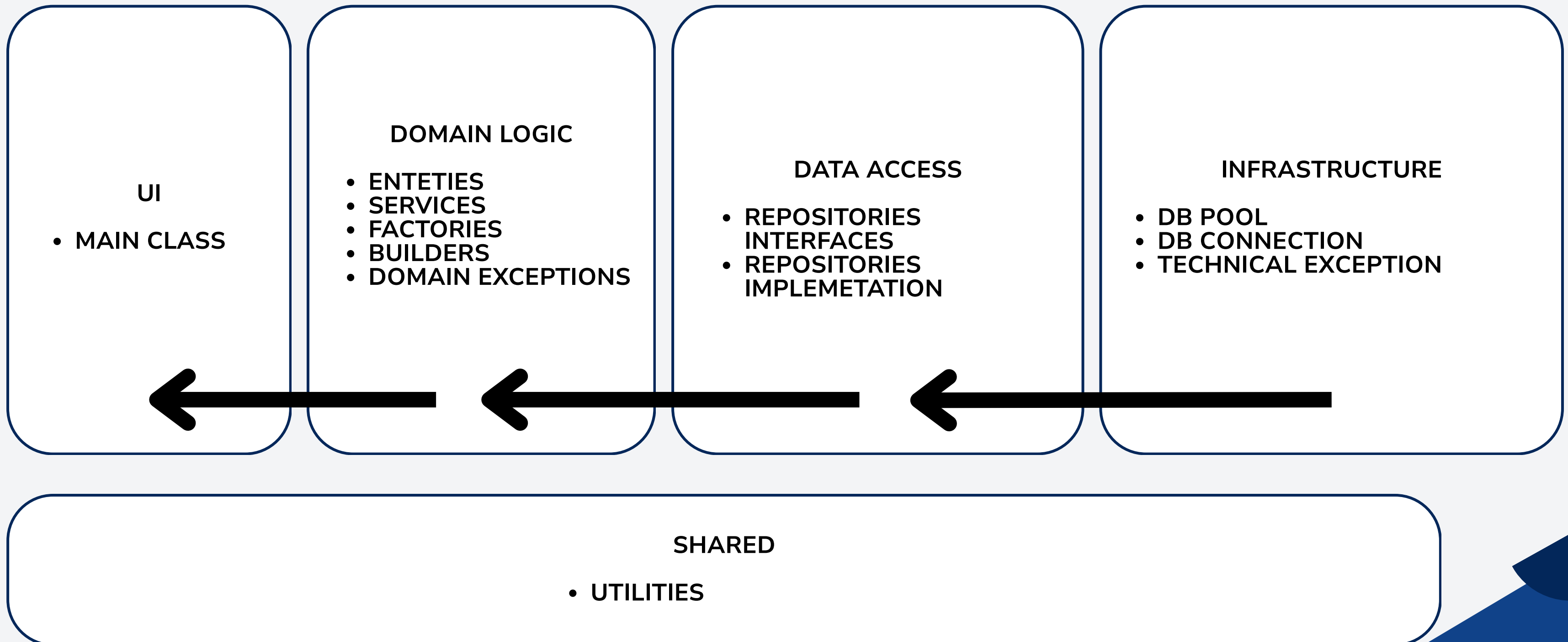
USER CHANGES STATUS OF
TASK

SCENARIO 2

USER RETRIVES
OVERDUE PROJECTS



ARCHITECTURE OVERVIEW



COMPONENTS

USER COMPONENT CLASSES

- USER
- IUSERREPOSITORY
- USERREPOSITORY
- USERSERVICE
- DUPLICATEEMAIL EXCEPTION
- USERNOTFOUND EXCEPTION

TASK COMPONENT CLASSES

- TASK
- BUGTASK
- FEATURETASK
- RESEARCHTASK
- TASKFACTORY
- TASKSERVICE
- ITASKREPOSITORY
- TASKREPOSITORY
- TASK-RELATED EXCEPTIONS

PROJECT COMPONENT CLASSES

- PROJECT
- PROJECTBUILDER
- PROJECTSERVICE
- IPROJECTREPOSITORY
- PROJECTREPOSITORY
- PROJECT EXCEPTIONS

INFRASTRUCTURE COMPONENT CLASSES

- SUPERBASEDB
- IDBPOOL
- DATABASE OPERATION EXCEPTION

COMMENT COMPONENT CLASSES

- COMMENT
- COMMENTSERVICE
- ICOMMENTREPOSITORY
- COMMENTREPOSITORY

SHARED COMPONENT CLASSES

- IREPOSITORY
- ENTITYFILTER

REP: The Reuse/Release Equivalence Principle

CCP: The common Closure Principle

CRP: The common Reuse Principle

DEMO HIGHLIGHTS

The screenshot displays the 3iga's Org database management interface. The top navigation bar shows the organization name, a 'FREE' badge, the current project '3iga's Project', the database 'main', and the environment 'PRODUCTION'. A 'Connect' button is also present. The main area is divided into a 'Table Editor' on the left and a table view on the right. The 'Table Editor' shows the 'public' schema with a list of tables: 'comments', 'projects', 'tasks', and 'users'. The 'projects' table is selected. The table view shows four records. The fourth record, with ID 4, is highlighted with a red rectangle. The terminal window on the left shows the following commands and output:

```
[Id: 1  
Name: Zangar  
Email: zangar@example.com  
, Id: 2  
Name: Zangar  
Email: ernur@example.com  
, Id: 3  
Name: Timur  
Email: timur@example.com  
, Id: 4  
Name: Azamat  
Email: azamat@example.com  
]  
Choose user by id:  
1  
Current user:Id: 1  
Name: Zangar  
Email: zangar@example.com  
  
Creating new project  
Project name:  
Mega Project 2  
Project deadline in MM/dd/yyyy:  
10/01/2027  
Description:  
Best Project  
Creating  
Added successfully:Project{id=4, name='Mega Project 2', description='Best Project', deadline='2027-10-01', createdAt='2026-02-08', ownerId=1}
```

	Id	created_at	name	description	deadline	owner_id
	1	2026-01-19	Music App	App for listening and loading music	2026-12-12	1
	2	2026-01-28	Good	Cool	2029-01-02	1
	3	2026-01-28	Bad	Worse	2029-01-06	1
	4	2026-02-08	Mega Project 2	Best Project	2027-10-01	1

The bottom of the interface shows pagination information: 'Page 1 of 1', '100 rows', and '4 records'. There are also buttons for 'Data' and 'Definition'.



THANK
YOU