Design Template

Symphony Ltd – Private Institute

Name	Student ID	BATCH	SUPERVISOR	SEMESTER
Mesum Bin Shaukat	1391522	2206G1	Owais Imam	3rd-HDSE I
Syed Ahmed Rooshan	1350715	2206G1	Owais Imam	3rd-HDSE I

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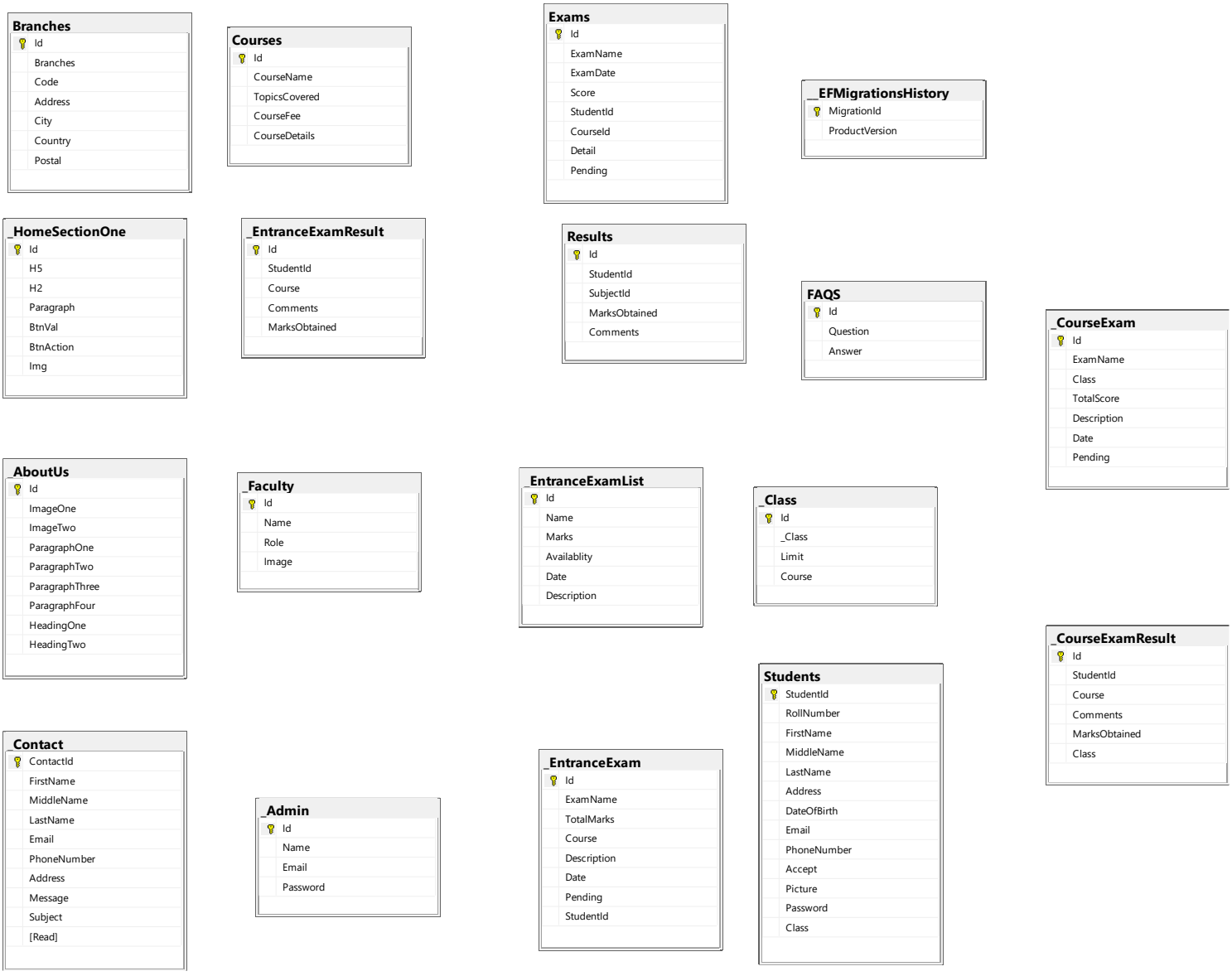
Database



There are total **17 models** excluding _EFMigrationsHistory in database for this project. There are no **foreign/primary** keys assigned to any model, because as a developer I wanted to acquire all the control, like if admin wanted to perform any **CRUD** operation on any model or any specific column of any model then their shouldn't be any problem occurring while performing any such tasks. Below down are models mentioned:

1. _AboutUs:
    a. It manages the first section of about page.
    b. Admin can insert image and paragraphs according to his requirement.
2. _Admin:
    a. This model has Admin login credentials, e.g: username, email and password

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3. _Class:
    a. Admin can create any new class and can set its limit and assign any course to that class.
4. _Contact:
    a. If anyone will fill the contact form then this model will store all the user queries.
    b. This model will be utilized to show those queries to admin, and admin can perform any operation on that query, for example, he can send e-mail to that user from the dashboard.
    c. If admin has seen/read the message then he can mark that query of user as seen or he can also delete it if he wanted to do it.
5. _CourseExam:
    a. It store all the exams/modular/assessments which will be assigned or will be conducted on any course by the Admin.
    b. It has vital role in class exams, because those courses are being taught in different classes depending on the assigned course to that specific class.
6. _CourseExamResult:
    a. This model stores the final result for course/class exam for the student.
7. _EntranceExam:
    a. It stores entry exam details for the students, who are willing to enroll in any course.
8. _EntranceExamList:
    a. It contains all the array of entry exams.
9. _EntranceExamResult:
    a. It contains the final result for the student.
    b. This model is very useful for the students because students can verify their obtained marks once confirmed by the admin.
10. _Faculty:
    a. It stores all the faculty details, like, name, image, and role.
    b. It will be displayed on About Us page
11. _HomeSectionOne:
    a. This model is used to customize the landing/home page section one content according to the admin aspiration.
12. Branches:
    a. This model data will be displayed on the last section of Contact page, and it contains the all the details of the branches of the institute.
13. Courses:
    a. It stores the assorts of courses to be offered with proper details.
14. Exams:
    a. This model contains all the exams details which needs to be conducted again because of the student didn’t appear in the exam, or may be failed, so it generally stores the information for individual student exams.
15. FAQS:
    a. It contains all the Frequently Asked Questions with Answers, and will be displayed on the FAQS page.

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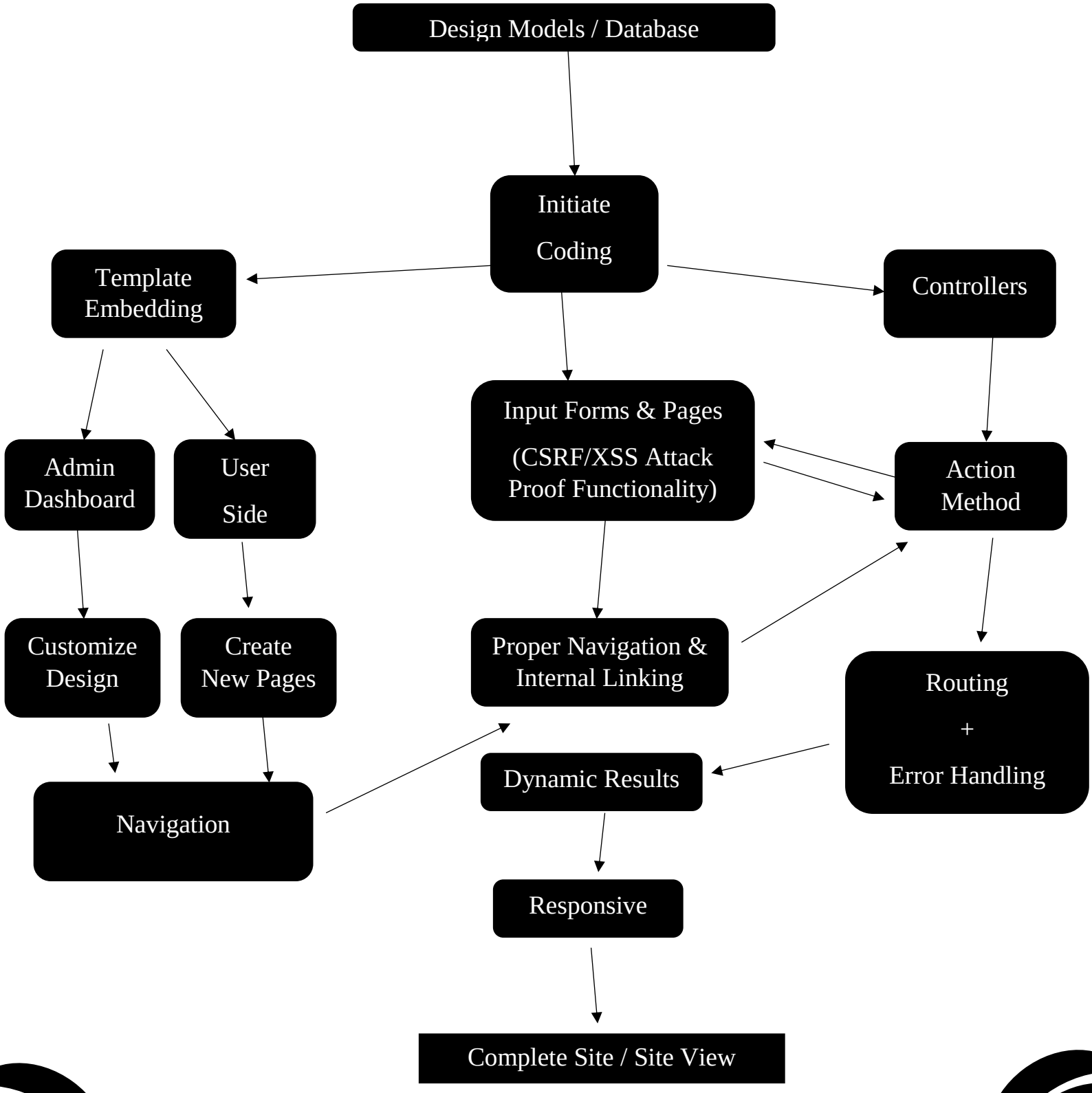
16. Results:
    a. This model stores the results for individual student exams.
17. Students:
    a. This model is very crucial part, because it will be used in other models too.
    b. This contains the student information, like first name, middle name, last name, email, roll number and etc.

FLOW CHART



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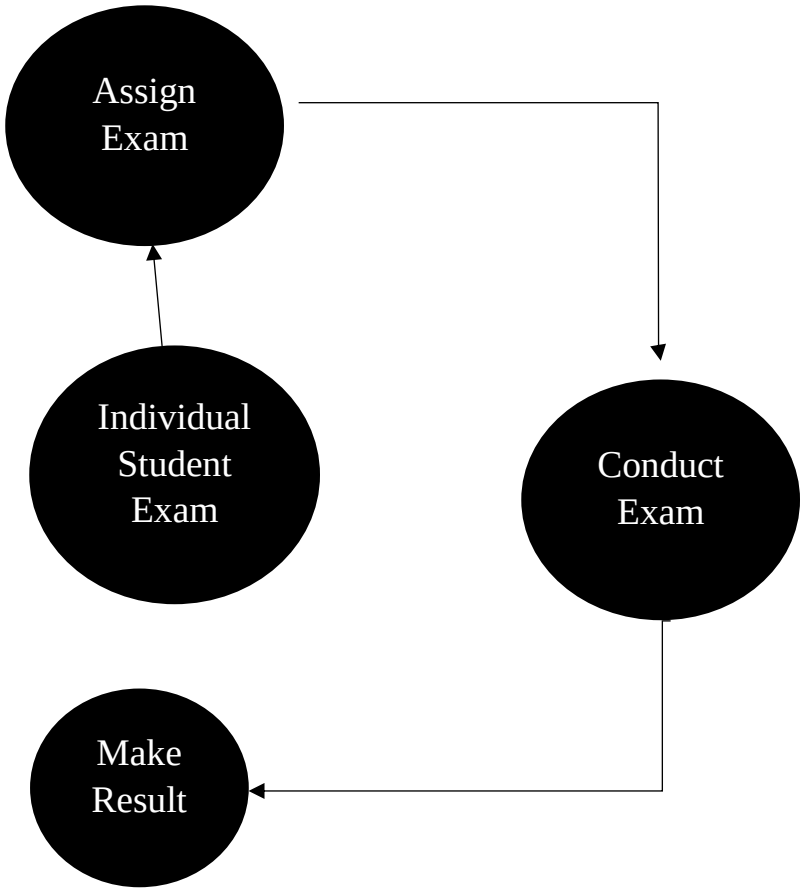
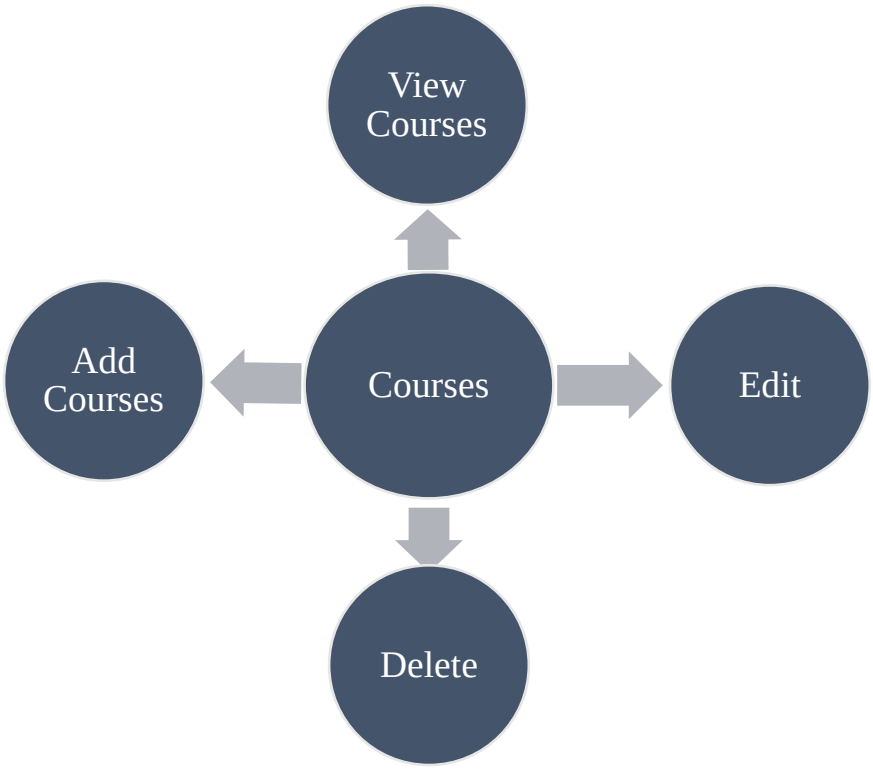
Basic DFD (Data Flow Diagram)





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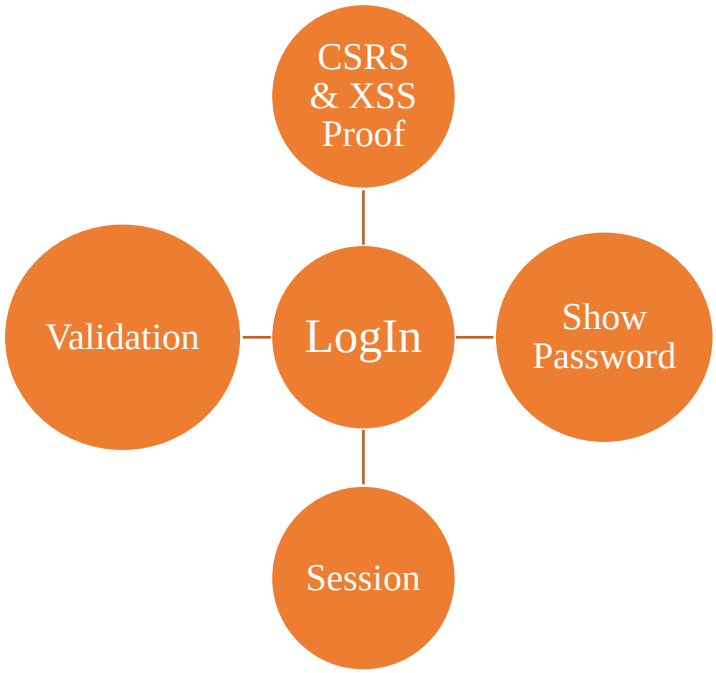

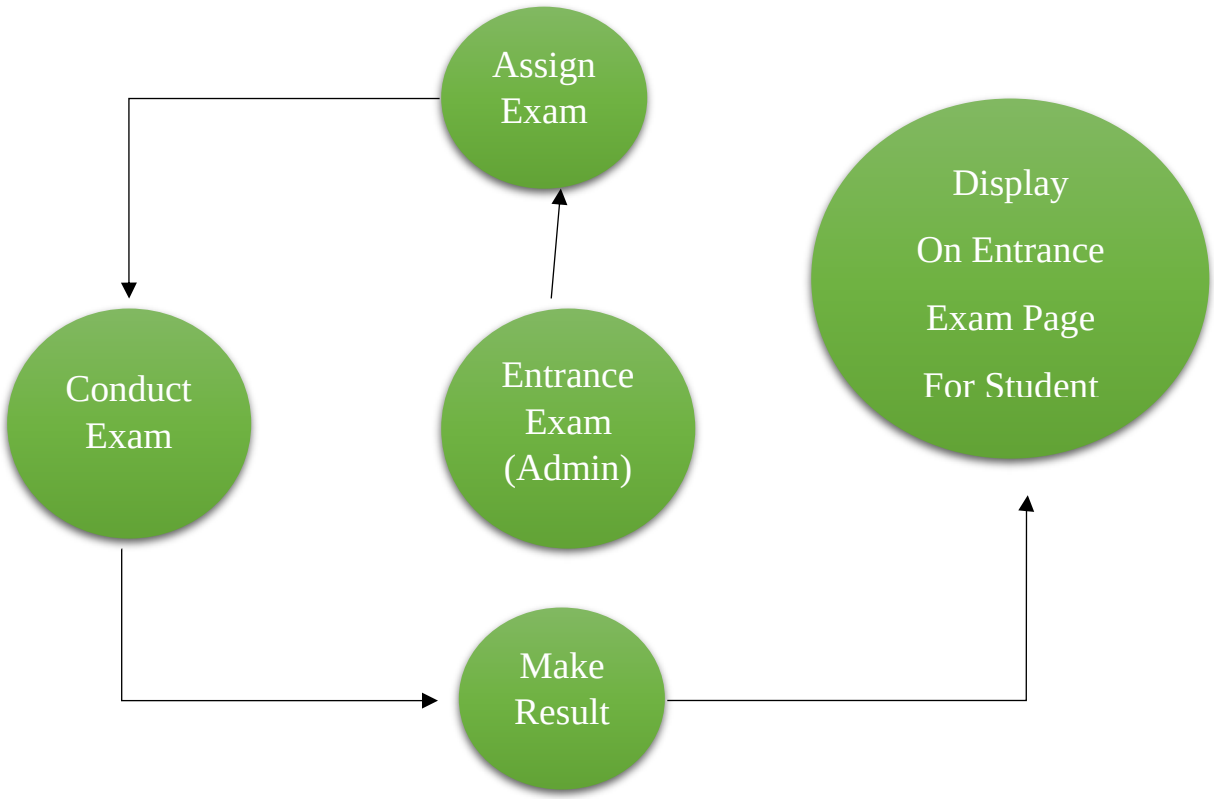

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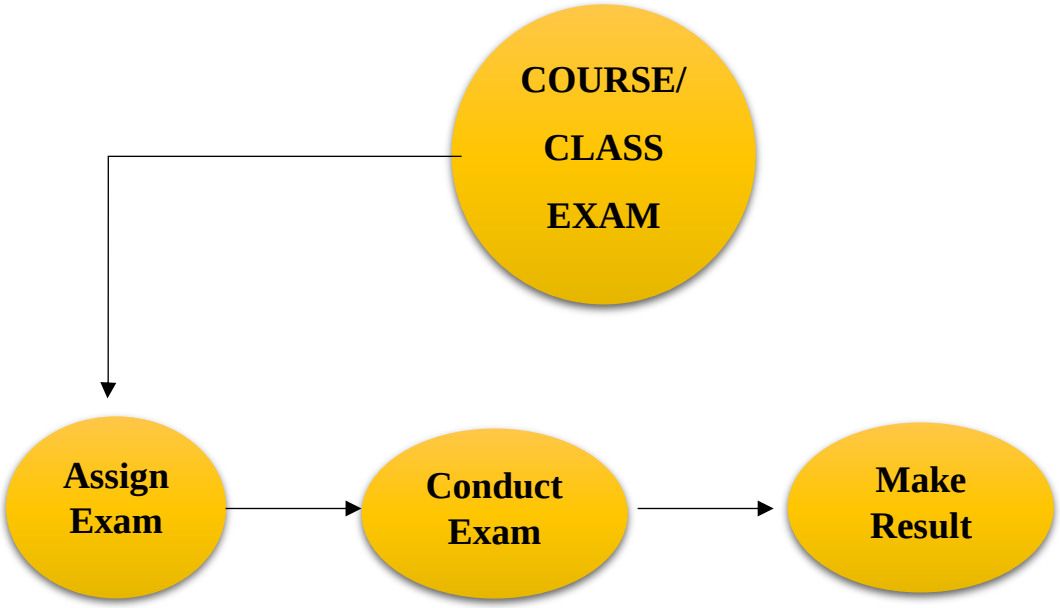

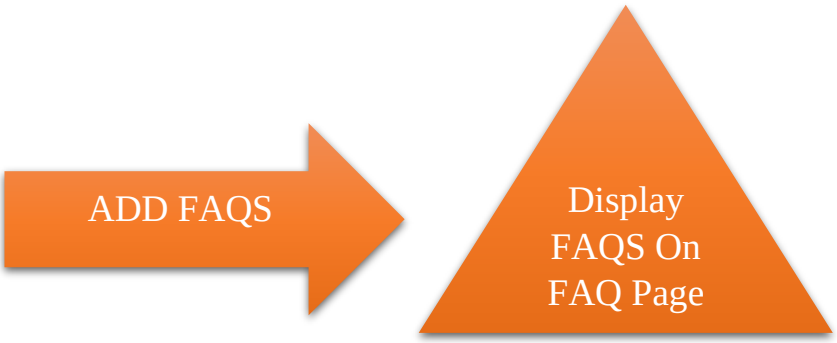

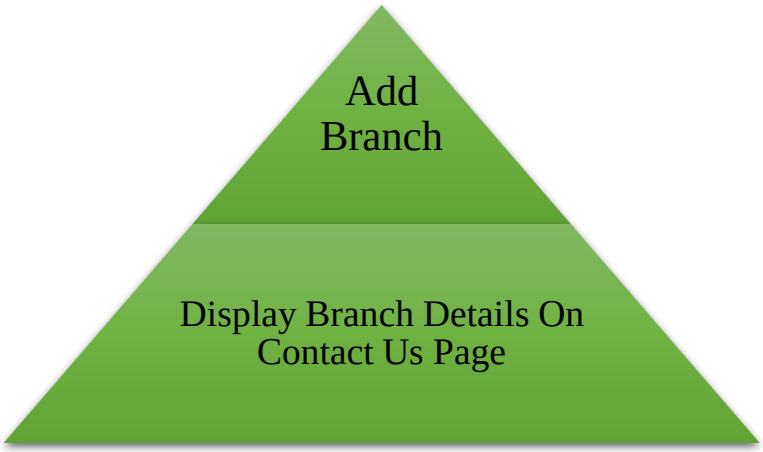

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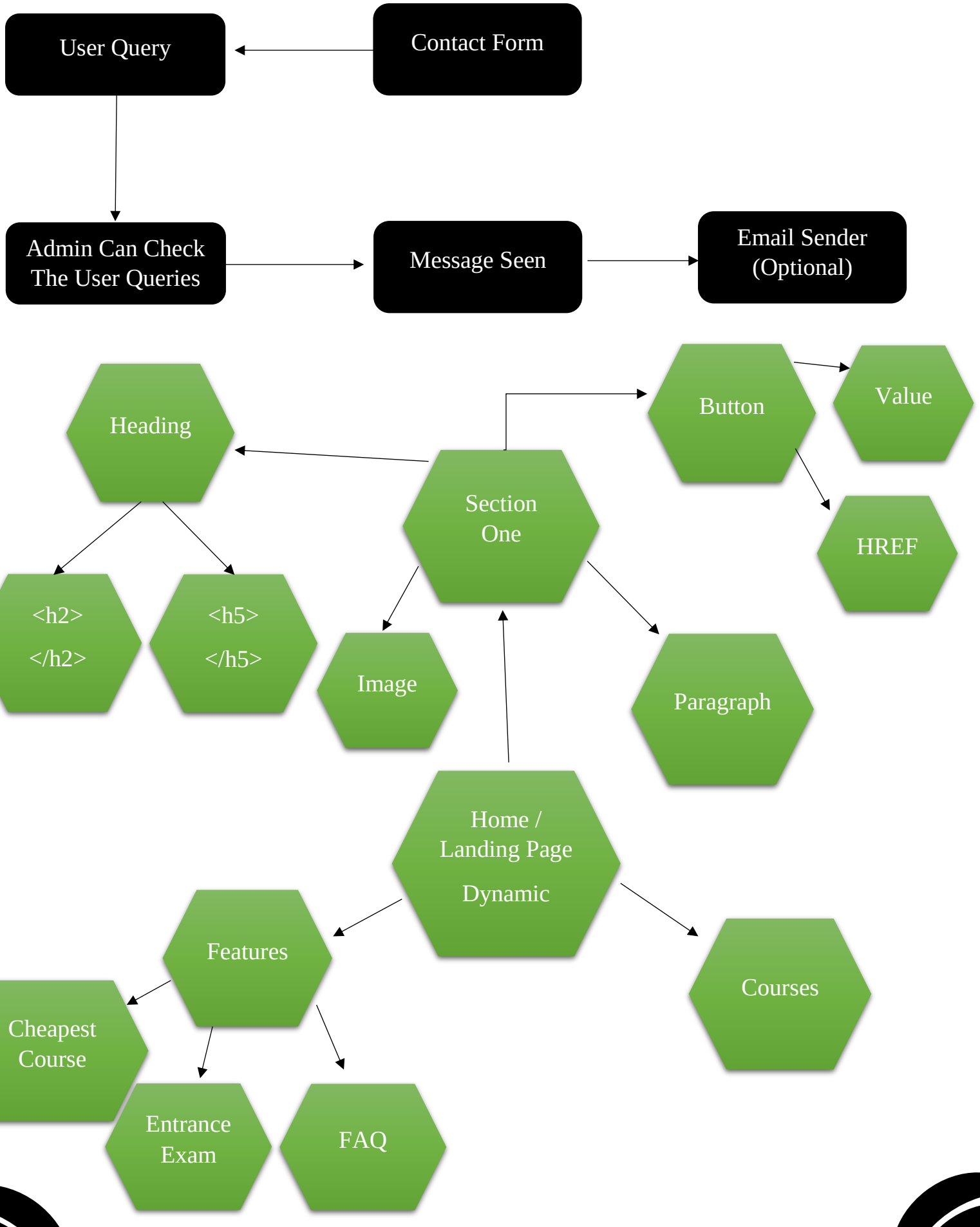

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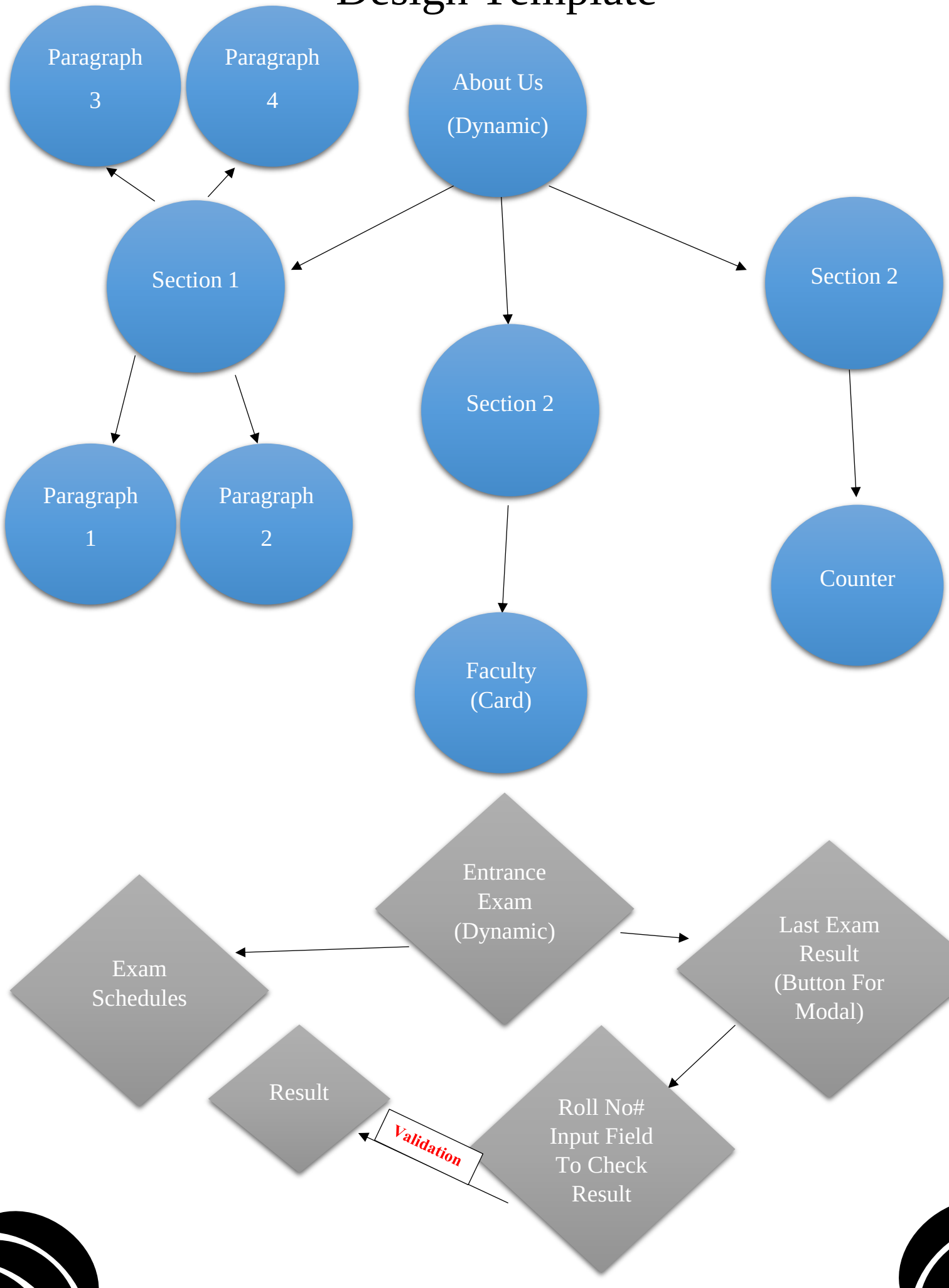

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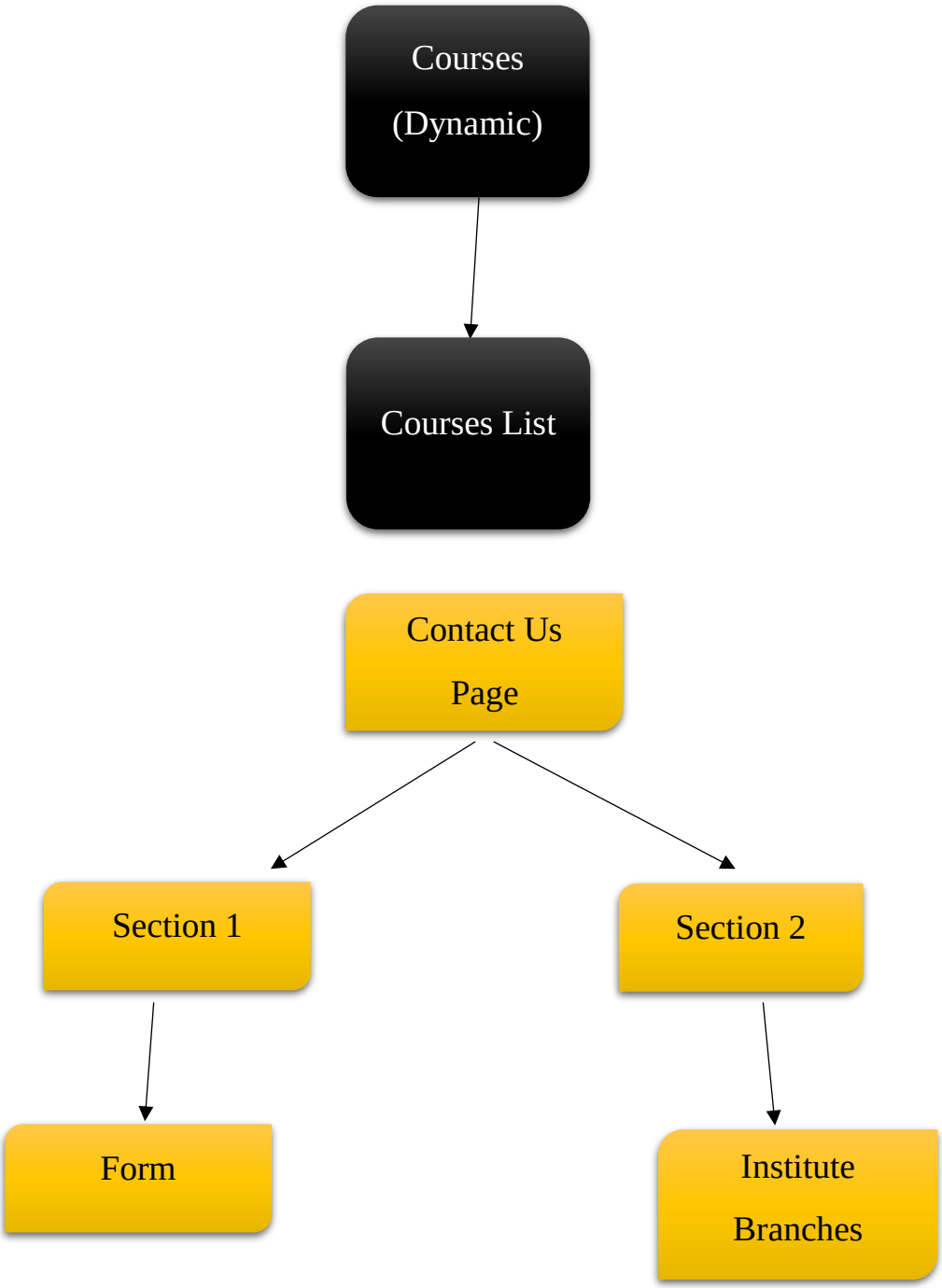

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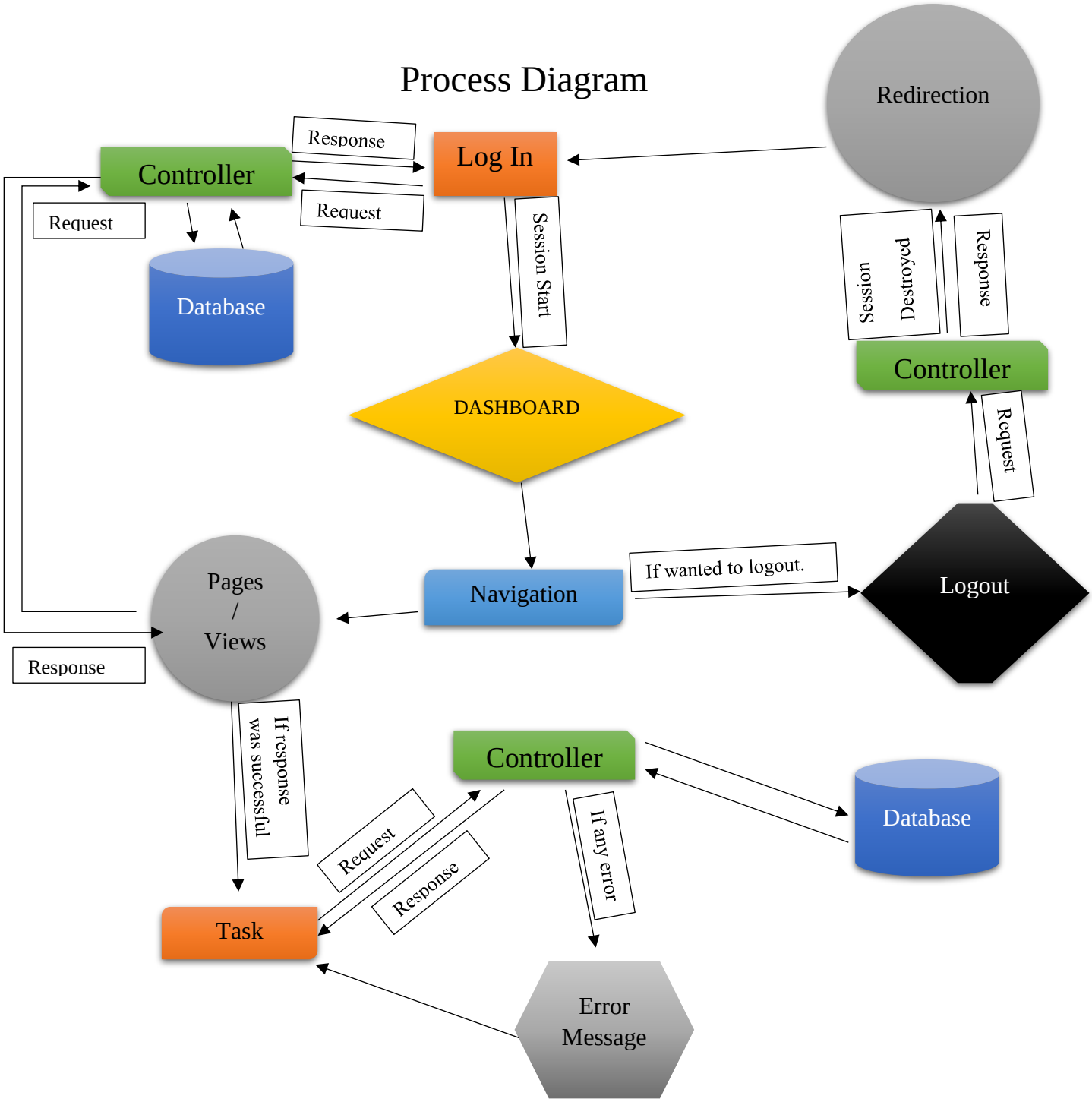
Process Diagram