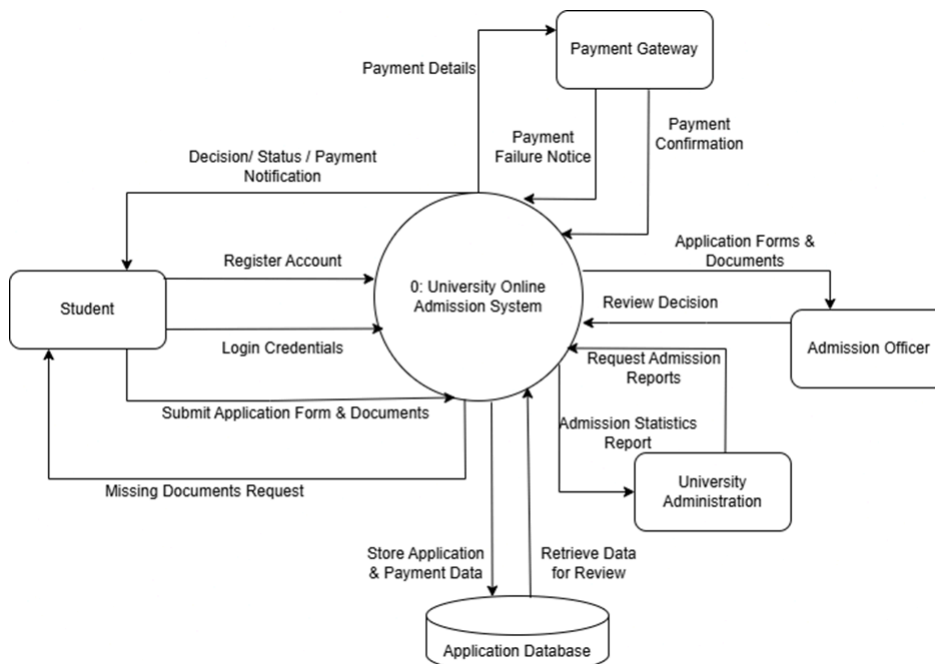


**CSE 471 Summer 2025**  
**Assignment #2 (10 marks)**  
**Deadline: 30 August 2025 11:59 pm (Online)**

**Instructions for preparing the solution script:**

- Write your name, ID#, and Section number clearly in the very front page.
- You have to submit a handwritten scan copy of your assignment. Submission link: <https://forms.gle/ijt56W9ubPmKGwBi7>
- Late submissions will not be accepted.



The University Online Admission System consists of multiple interconnected internal processes that work together to handle student admissions efficiently. The context DFD is already given above. The system begins with the Student Account Management process, where students can register for a new account or log in to an existing one. Basic student information is captured and temporarily stored for session management and tracking purposes in TempStudentBuffer database. After successful login, students proceed to the Application Submission process. Here, they fill out the admission form and upload necessary academic documents. These documents are stored securely in the Application database and passed back to the same process for validation or review process. The Document Verification process, sends the verified documents to the review unit who runs the Application Review process for further action. The Admission Officer sends a review decision to the Application Review process which sends the result to the Notification Management process. Next, students handle their payment through the Payment Processing process. The system collects payment information from the students and communicates with the Payment Gateway by sending payment details. Responses from the gateway either confirm or fail are partially sent back to the Payment Processing process, and it sends the Notification (Status/Payment) message to the student through the Notification Management process. Once admission or payment outcomes are finalized, the Notification Management process takes over. This process handles the delivery of admission decisions, payment status of the students, and sends them. Finally, the Report Generation process serves the needs of University administrative users. The university administration requests statistical reports from the process and the process fetches the Aggregated Report Data from AdminReportTemp Database, and sends it back to the admins.

**Q1: Draw the Level-0 DFD diagram as described above. [7]**

**Q2: Identify the errors and list them down.[3]**