

CAP SYSTEM - SIMPLIFIED DATA FLOW DIAGRAMS

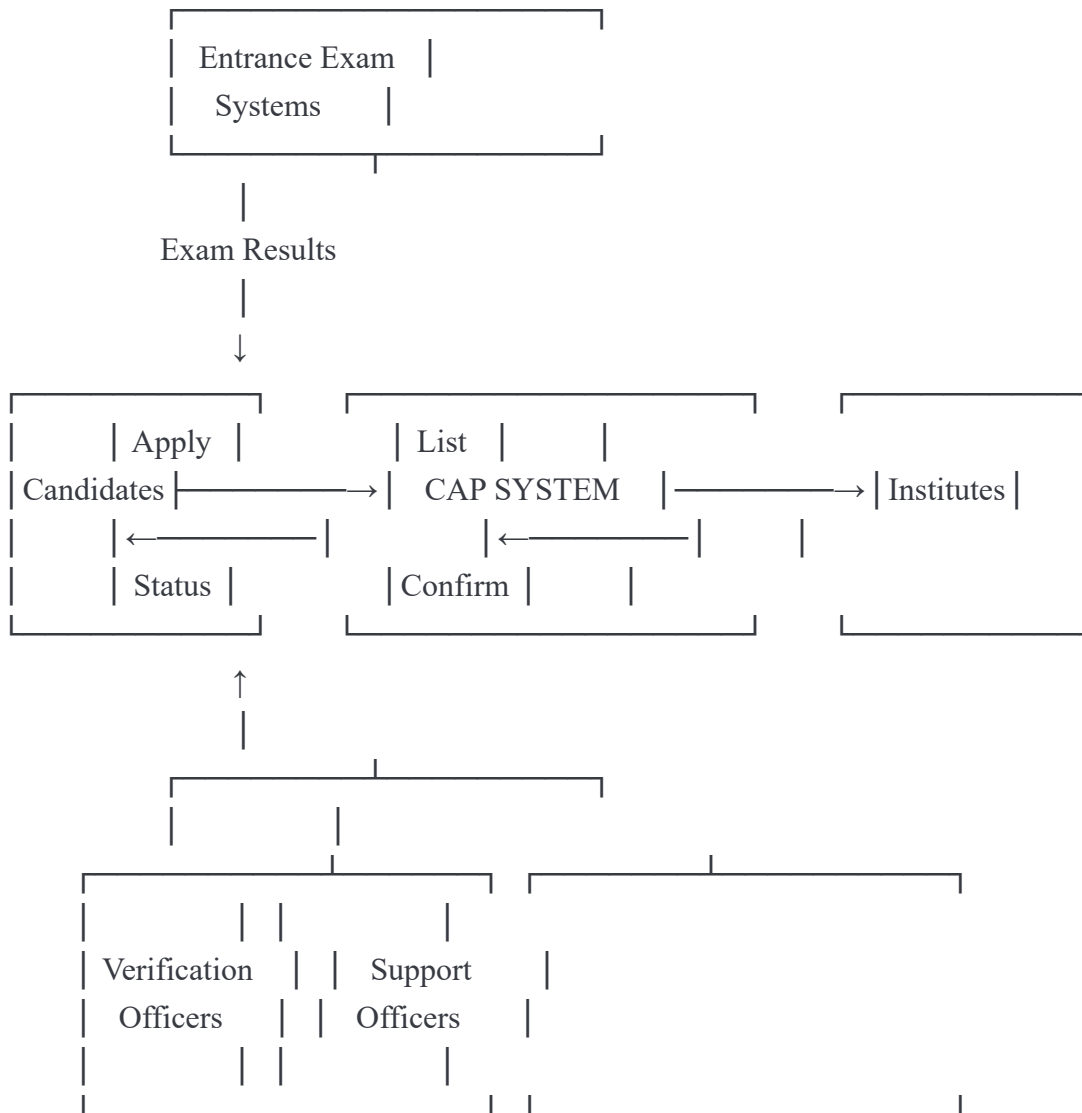
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System: Centralized Admission Process (CAP) for B.E/B.Tech Admissions

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1. CONTEXT DIAGRAM (Level 0)



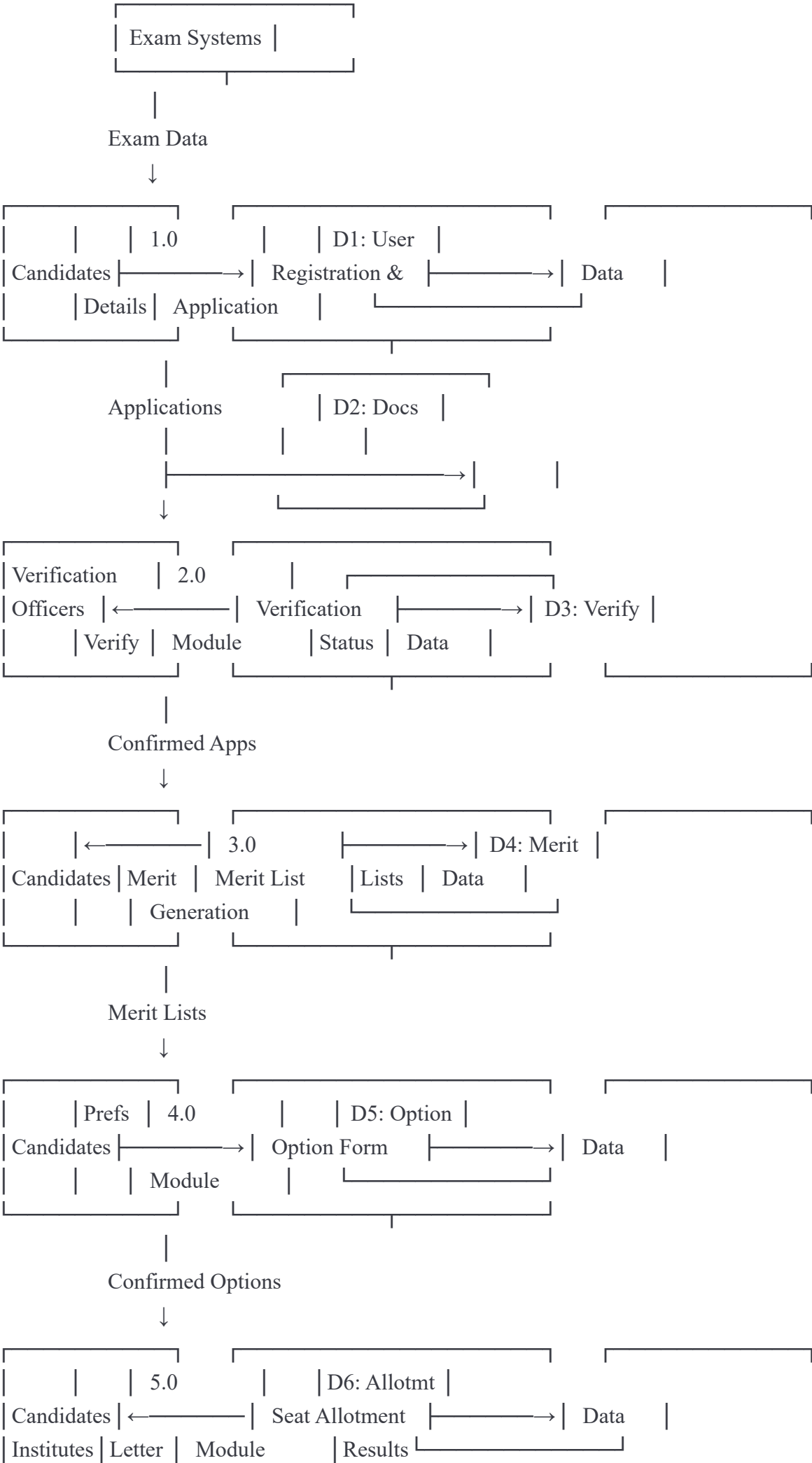


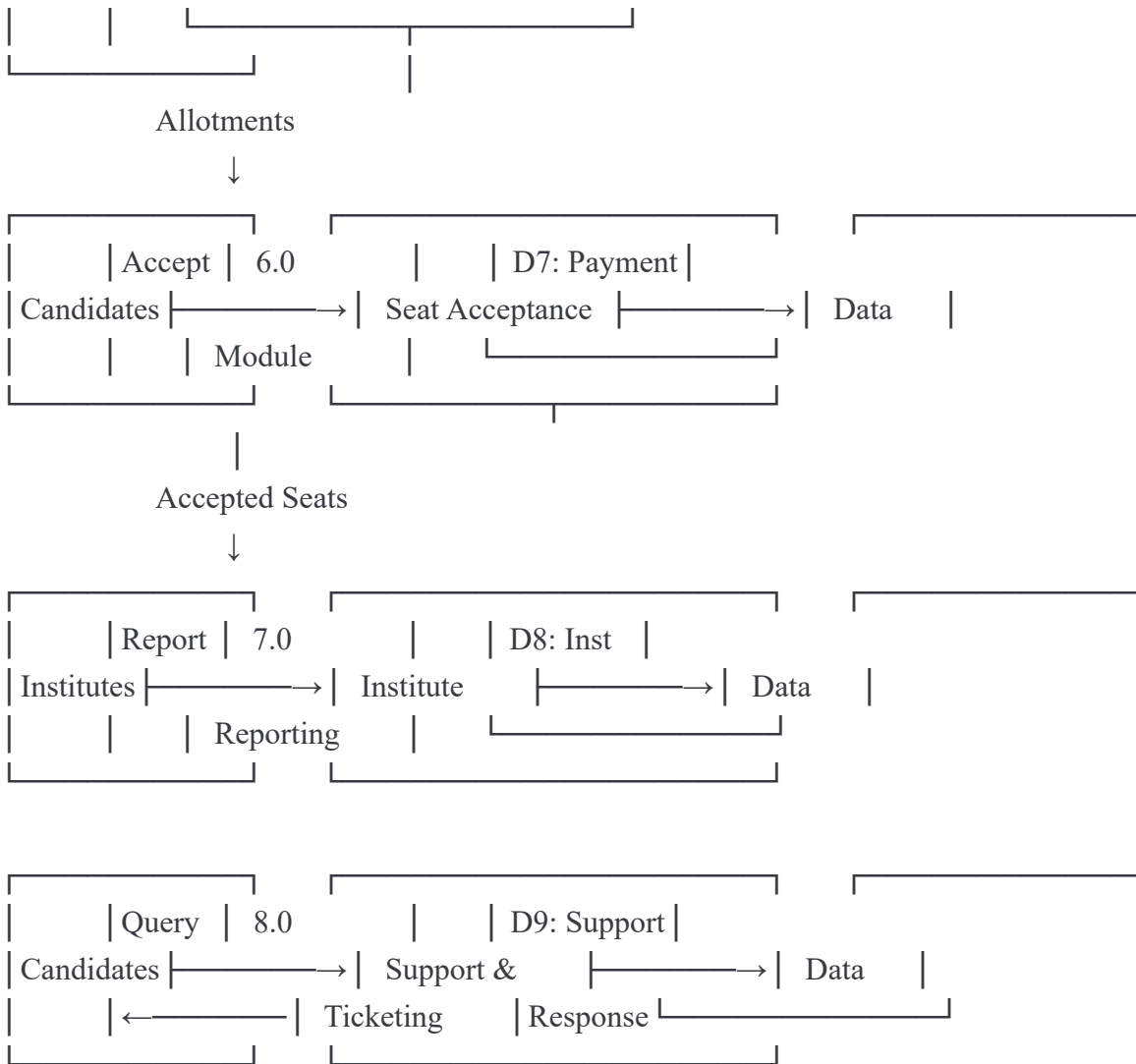
External Entities:

- **Candidates** - Apply, receive status updates
- **Institutes** - Receive allotted candidates, confirm admissions
- **Entrance Exam Systems** - Provide exam results
- **Verification Officers** - Verify documents
- **Support Officers** - Handle queries

2. LEVEL 1 DFD







Data Stores:

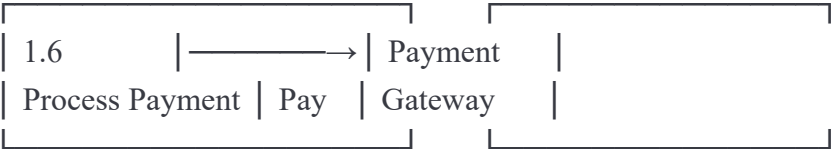
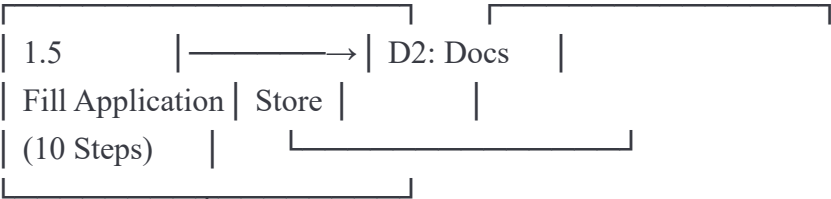
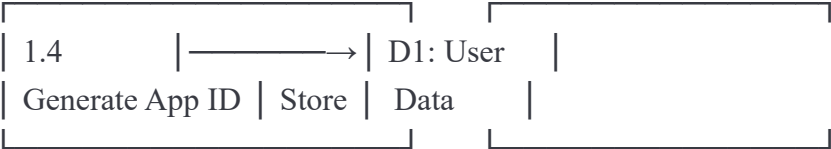
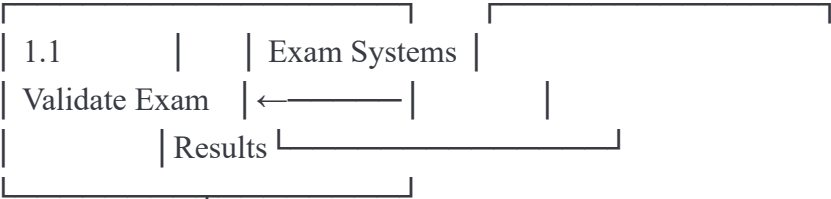
- **D1: User Data** - Candidate profiles and applications
- **D2: Docs** - Uploaded documents
- **D3: Verify Data** - Verification records
- **D4: Merit Data** - Merit lists and scores
- **D5: Option Data** - Candidate preferences
- **D6: Allotmt Data** - Seat allocations
- **D7: Payment Data** - Payment transactions
- **D8: Inst Data** - Institute admissions
- **D9: Support Data** - Support tickets

3. LEVEL 2 DFD - KEY PROCESSES

3.1 Registration & Application (Process 1.0)

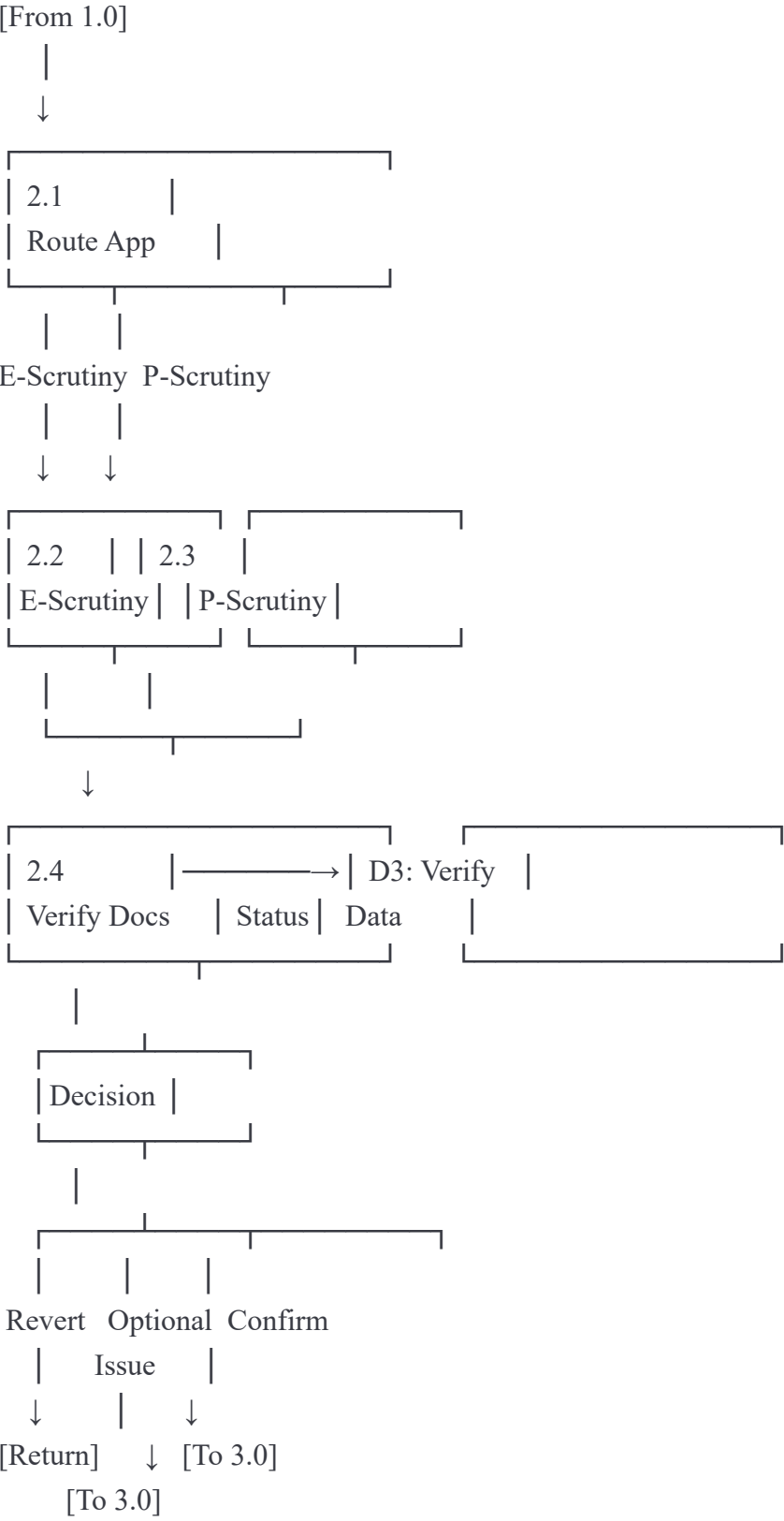


Candidates



↓
[To 2.0]

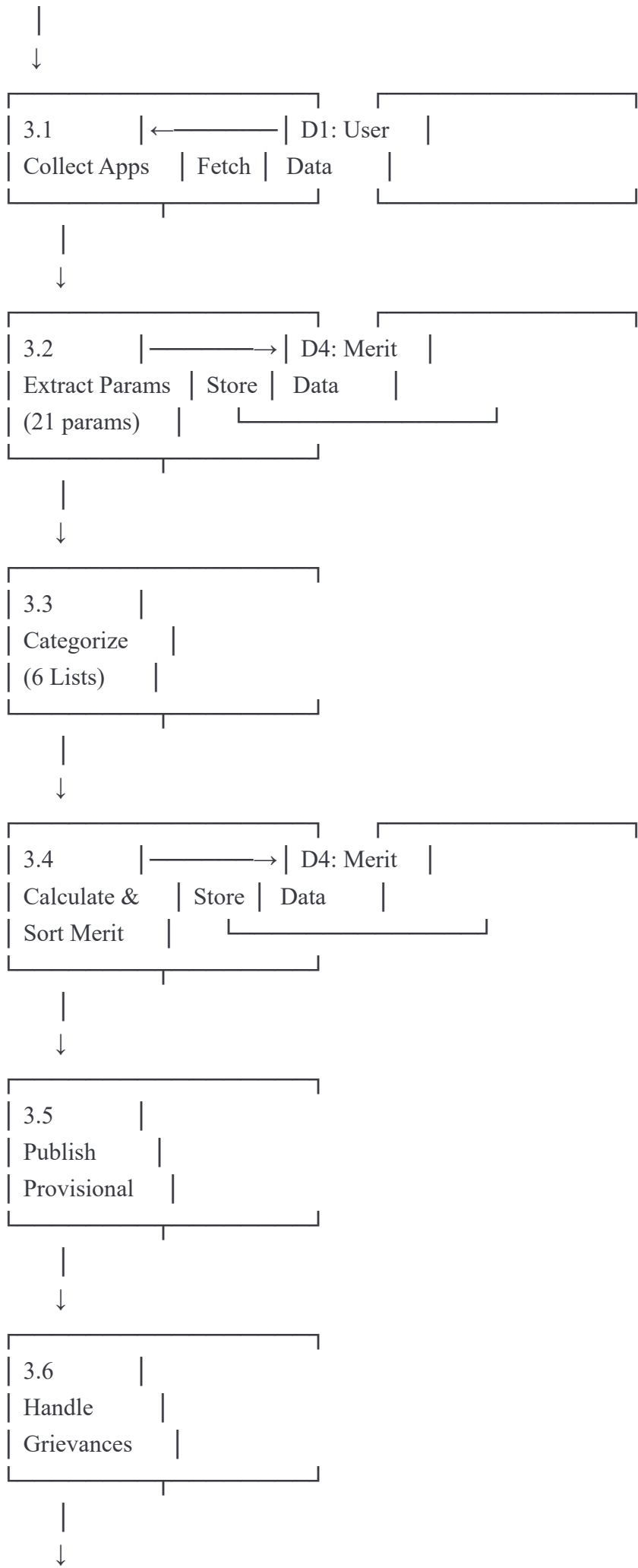
3.2 Verification Module (Process 2.0)

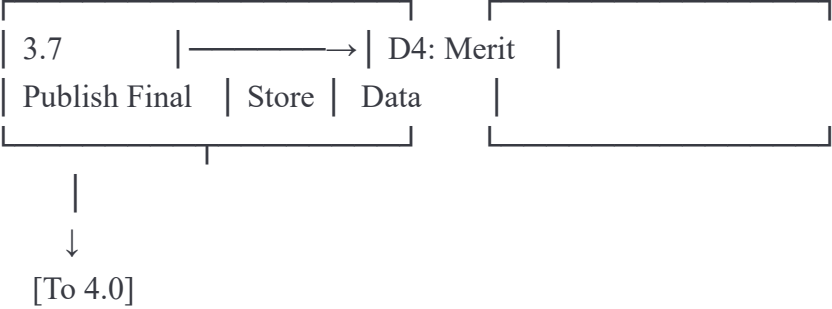


3.3 Merit List Generation (Process 3.0)



[From 2.0]

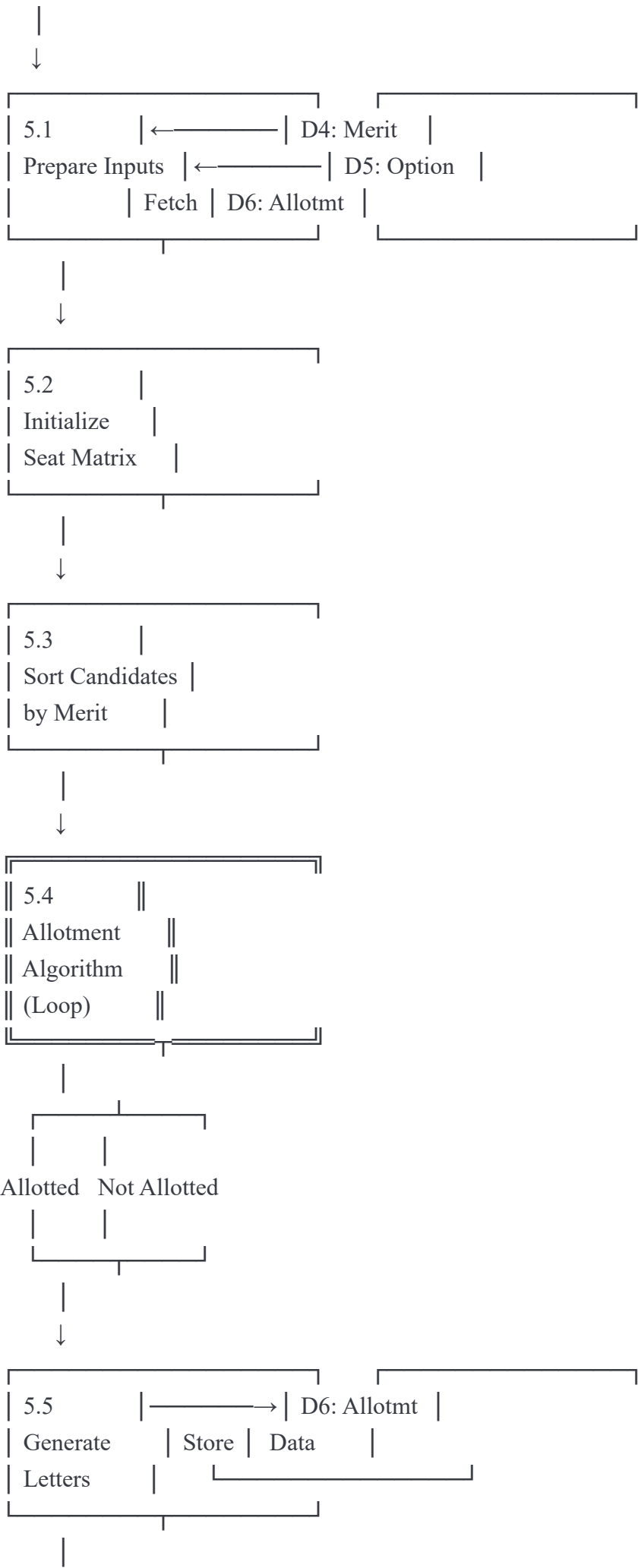


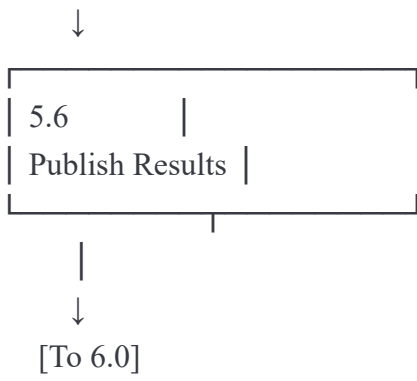


3.4 Seat Allotment (Process 5.0)



[From 4.0]

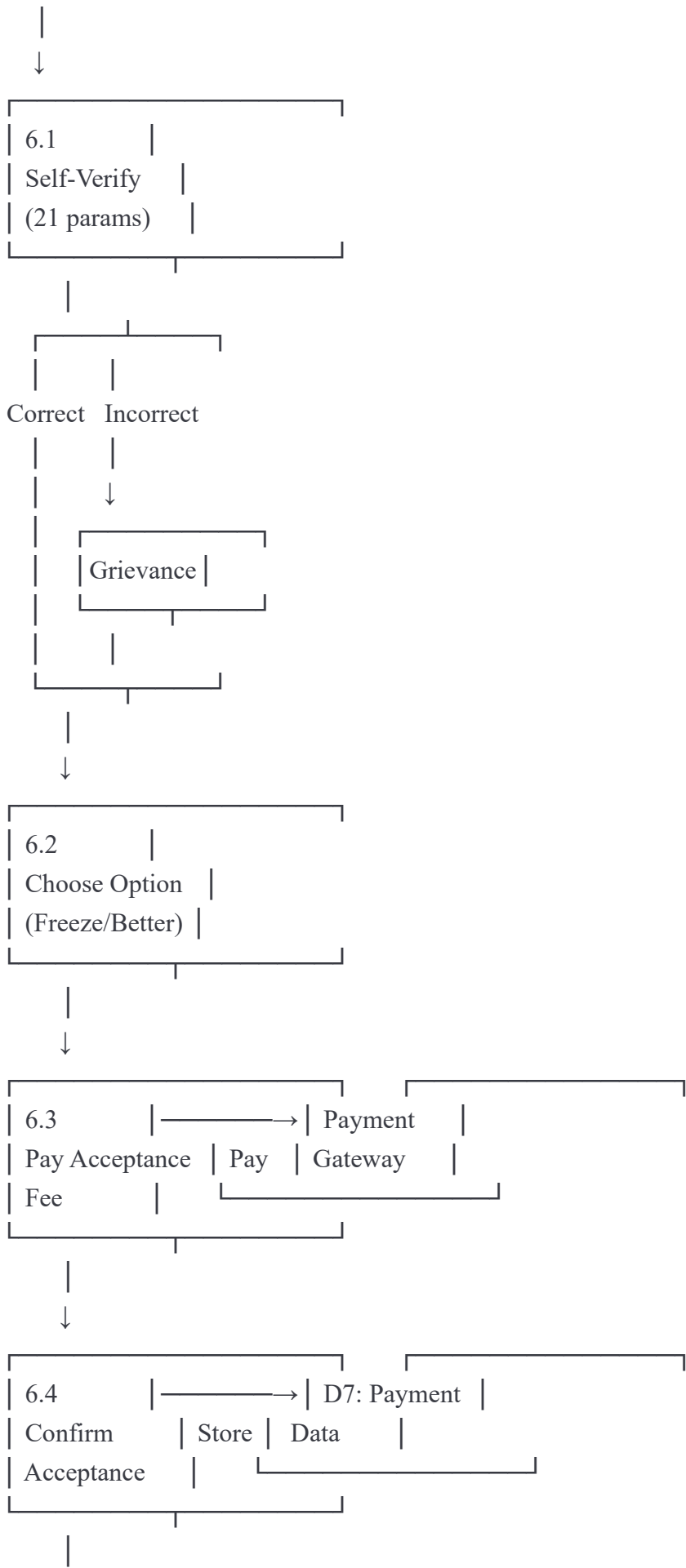




3.5 Seat Acceptance (Process 6.0)



[From 5.0]



SUMMARY

Process Flow Summary:

- 1. **Registration** → Candidates register with exam validation
- 2. **Application** → 10-step form filling and document upload
- 3. **Verification** → E-Scrutiny or P-Scrutiny verification
- 4. **Merit List** → Generate and publish merit rankings
- 5. **Option Form** → Candidates select institute preferences
- 6. **Allotment** → Seats allocated based on merit
- 7. **Acceptance** → Candidates accept and pay for seats
- 8. **Reporting** → Final admission at institutes

Key Data Flows:

- **Exam Data** → From external systems to CAP
 - **Application Data** → From candidates to system
 - **Verification Data** → Between officers and system
 - **Merit Data** → Generated and published to candidates
 - **Preferences** → From candidates for allotment
 - **Allotment Results** → To candidates and institutes
 - **Payment Data** → Between candidates and payment gateway
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END OF SIMPLIFIED DFD DOCUMENT