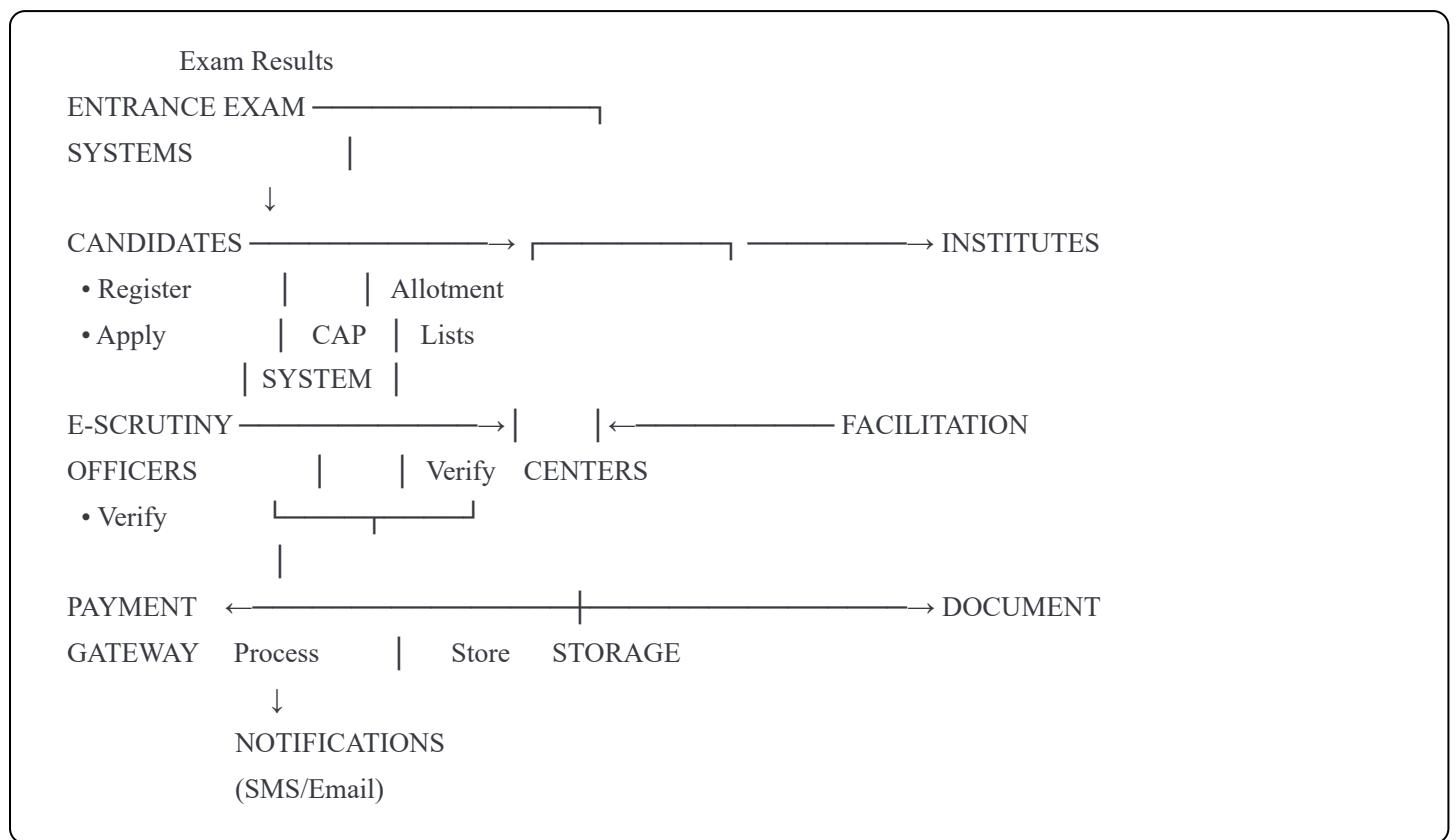
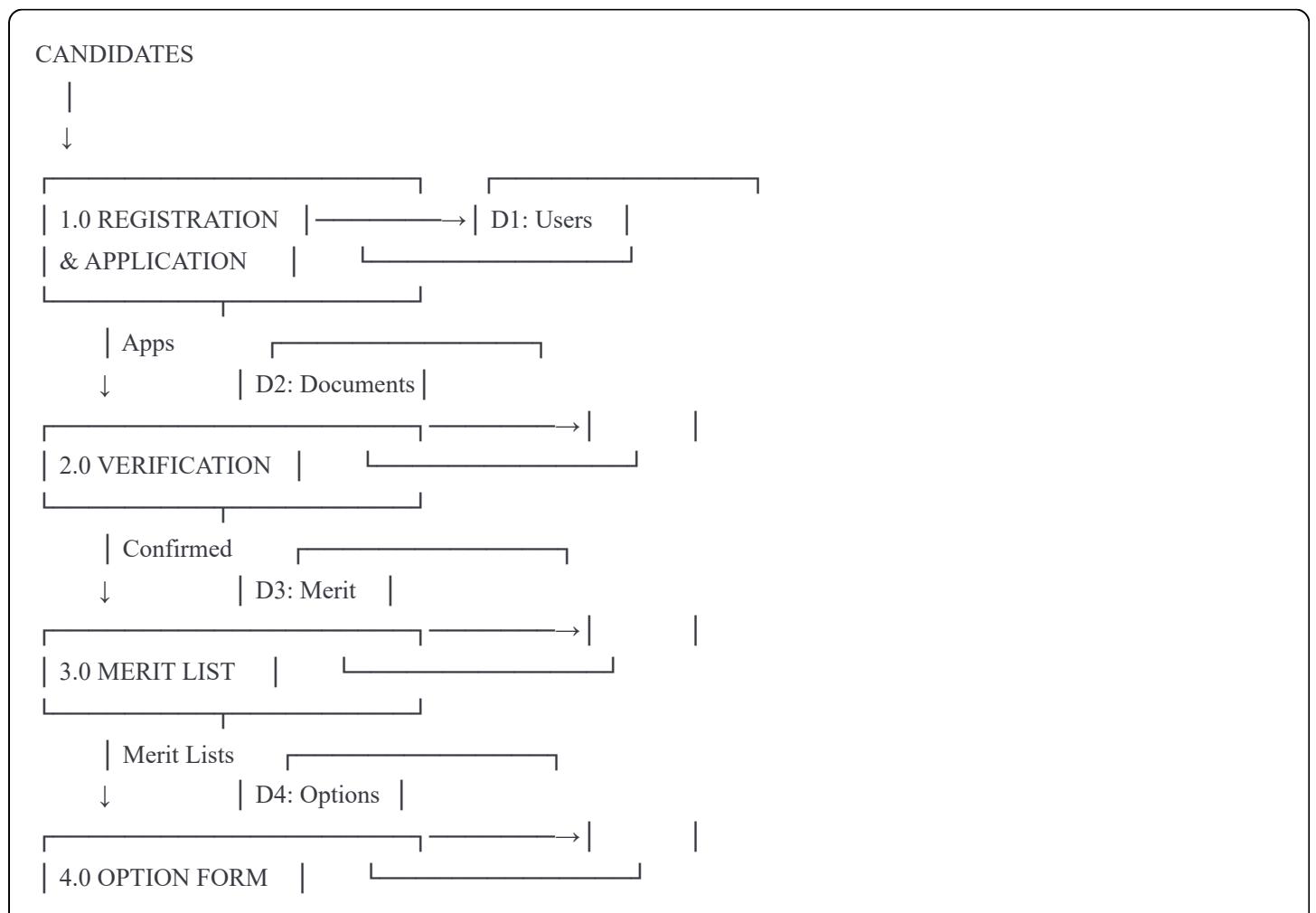


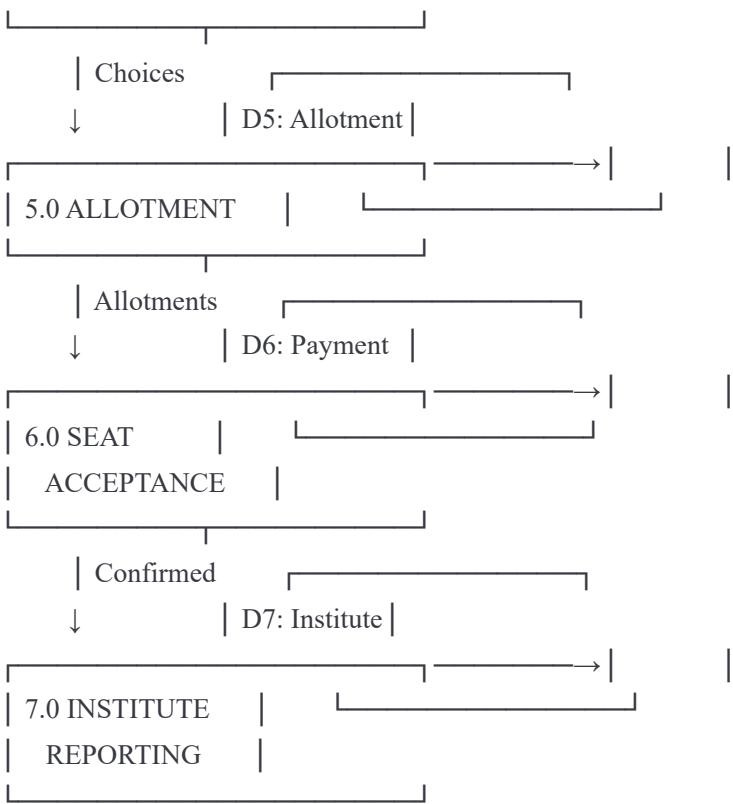
# CAP SYSTEM - COMPACT DIAGRAMS

## 1. CONTEXT DIAGRAM (Level 0 DFD)

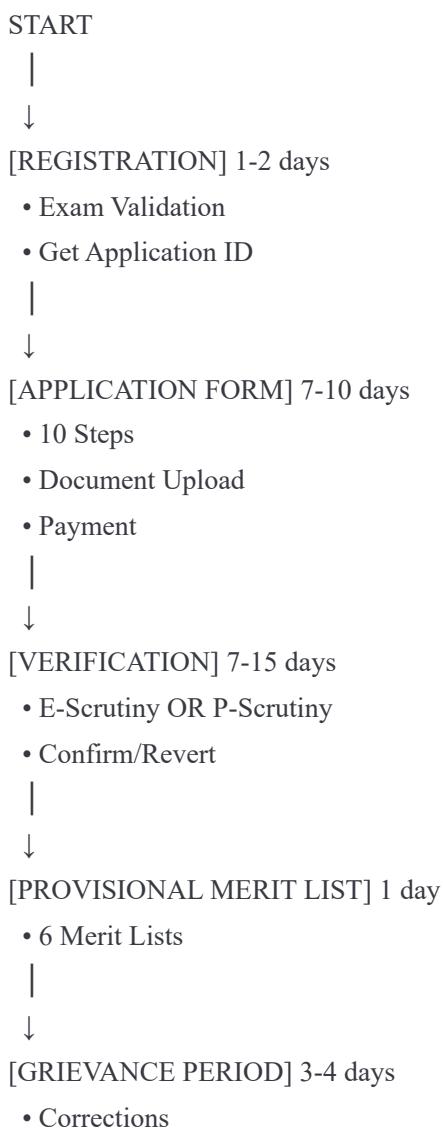


## 2. LEVEL 1 DFD - MAIN PROCESSES





### 3. COMPLETE CAP PROCESS FLOWCHART



|  
↓  
[FINAL MERIT LIST] 1 day

- Locked Rankings

|  
↓  
[CAP ROUND I] 14-21 days  
• Option Form  
• Allotment  
• Seat Acceptance  
• Institute Report

|  
↓  
[VACANCY REPORT] 1-2 days

[CAP ROUND II] 14-21 days

[VACANCY REPORT] 1-2 days

[CAP ROUND III] 14-21 days

END

Total: 10-12 weeks

#### 4. REGISTRATION FLOWCHART

START

[Enter Exam Details]

<Validate Exam> —NO→ ERROR

| YES

<Score > 0?> —NO→ ERROR

| YES

↓

[Personal Details]

|

↓

[Address Details]

|

↓

[Mobile + Email]

|

↓

<Duplicate?> —YES→ ERROR

| NO

↓

[Create Password]

|

↓

[Generate OTP]

|

↓

[Send SMS/Email]

|

↓

[Enter OTP]

|

↓

<OTP Valid?> —NO→ RETRY (Max 3)

| YES

↓

[Generate App ID]

|

↓

[Send Confirmation]

|

↓

END

## 5. VERIFICATION FLOWCHART (E-Scrutiny)

START

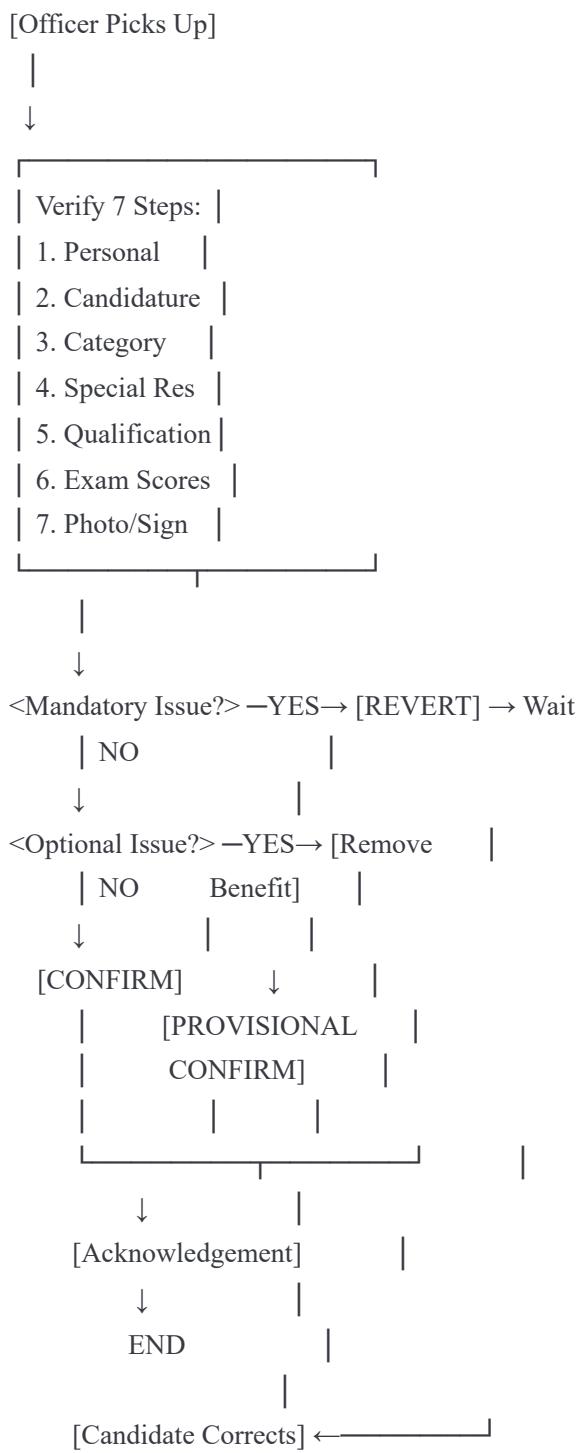
|

↓

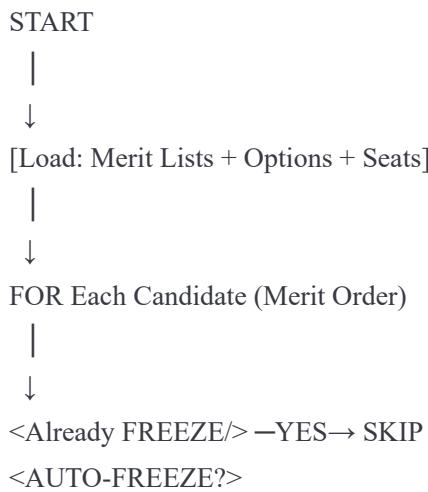
[Auto-Assign Officer]

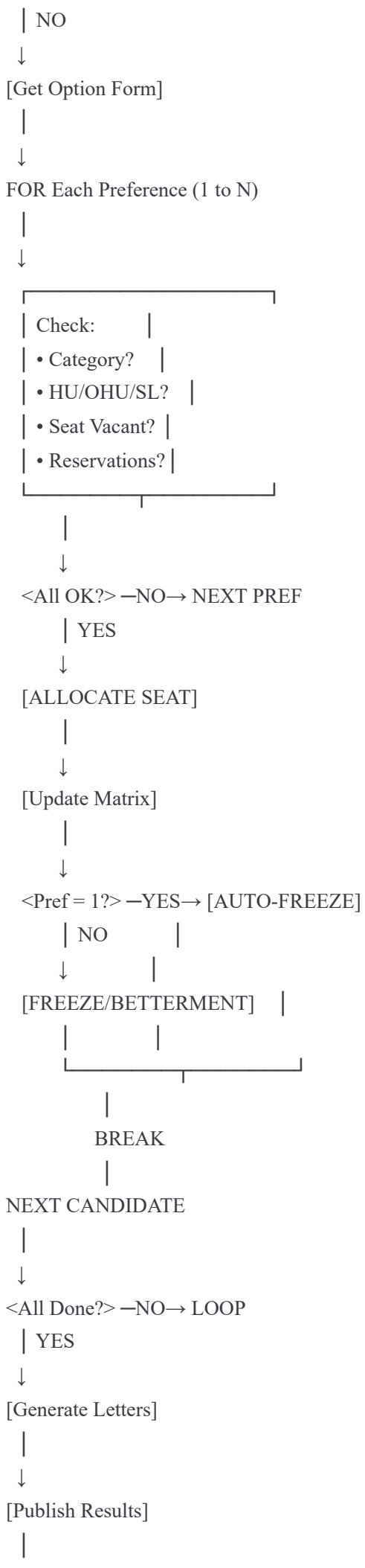
|

↓



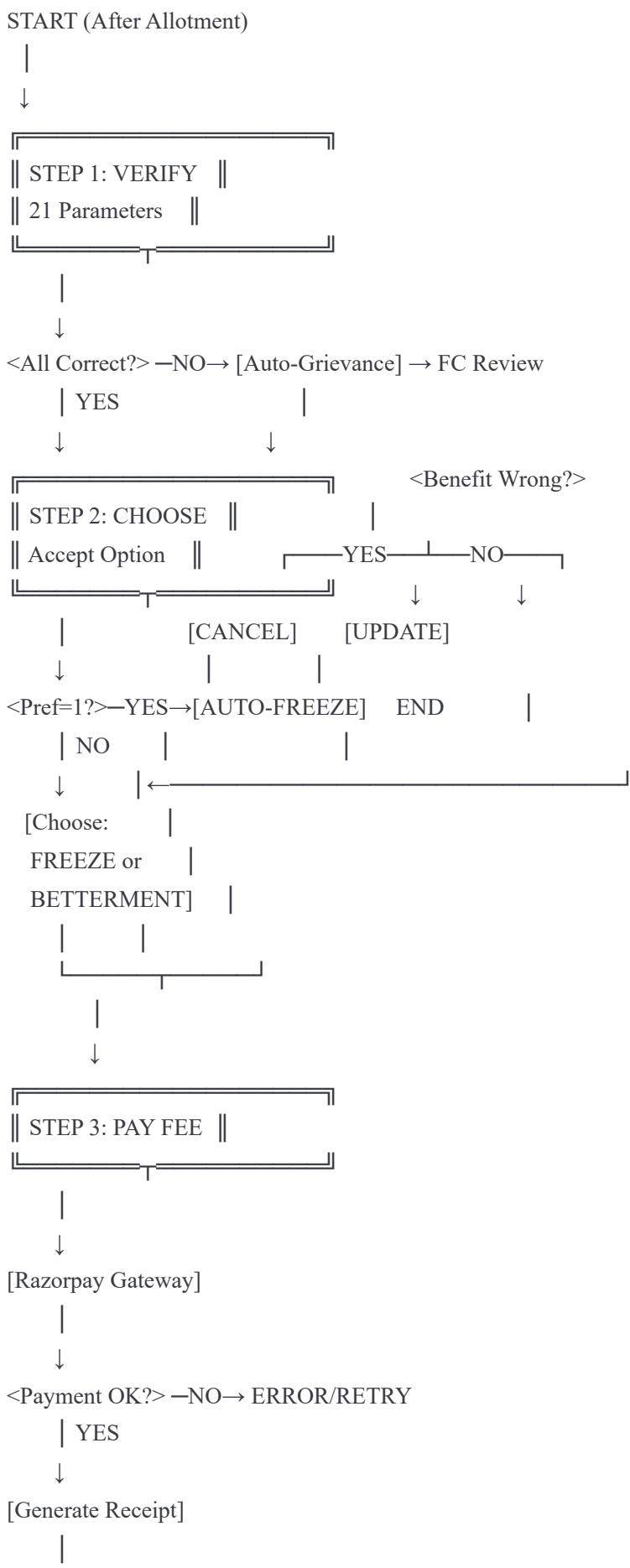
## 6. ALLOTMENT ALGORITHM FLOWCHART





↓  
END

## 7. SEAT ACCEPTANCE FLOWCHART



↓

|| STEP 4: CONFIRM ||

↓  
[Enter Password]

↓  
[Enter OTP]

↓  
[Generate Acceptance Letter]

↓  
[Send Notifications]

↓  
END (Report to Institute)

## 8. DATA FLOW - REGISTRATION TO ADMISSION

CANDIDATE

| (1) Register

↓

Application

| ID |

| (2) Fill Form

↓

Application

| Data |

| (3) Verify

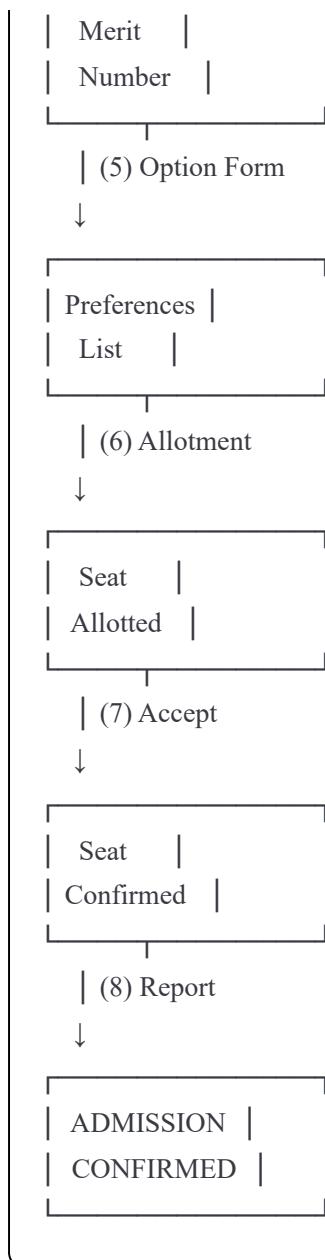
↓

Confirmed

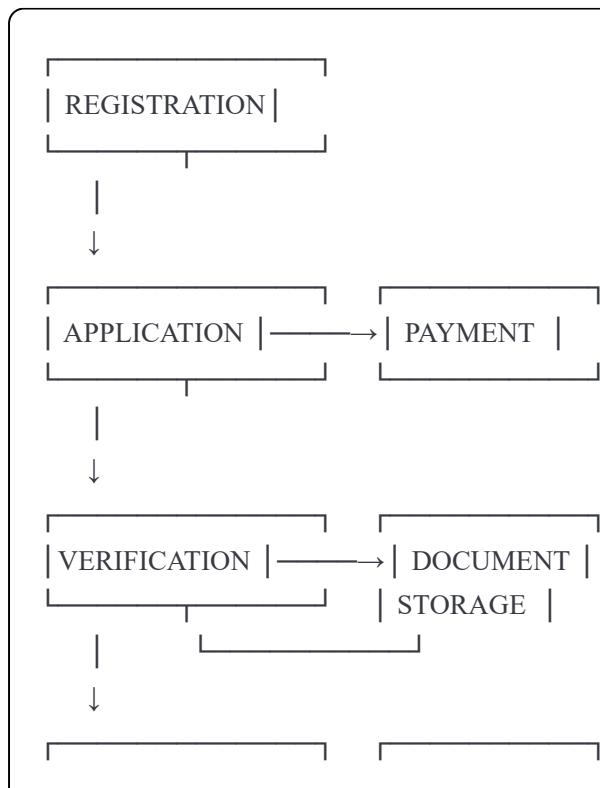
| Application |

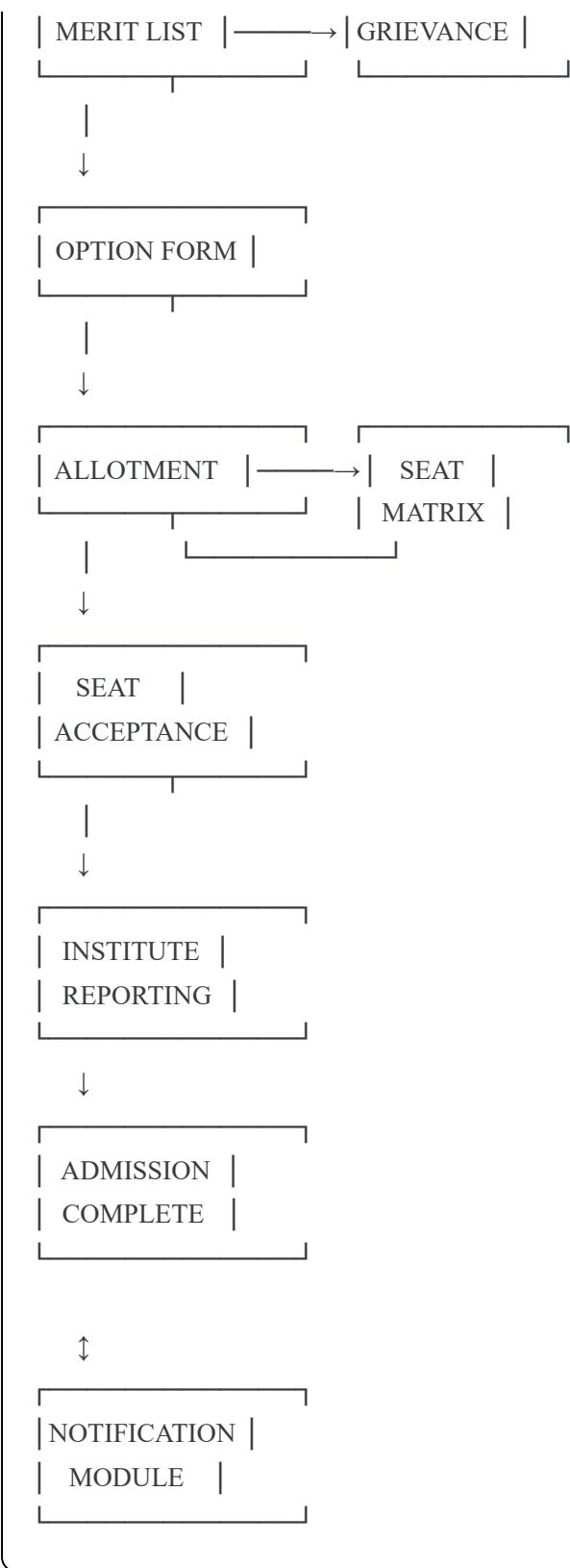
| (4) Merit Calc

↓

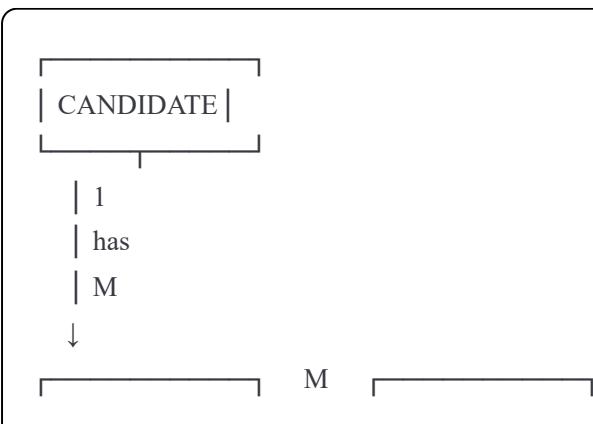


## 9. MODULE INTERACTION DIAGRAM





## 10. ENTITY RELATIONSHIP DIAGRAM





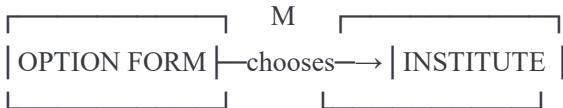
| 1  
| receives  
| 1  
↓



| 1  
| generates  
| M  
↓



| 1  
| creates  
| 1  
↓



| 1 | M  
| gets | offers  
| M | M  
↓ | ↓



| 1  
| requires  
| 1  
↓



| 1  
| confirms  
| 1  
↓



| 1  
| leads to

| 1

↓

ADMISSION |

---

## END OF COMPACT DIAGRAMS

*Total Pages: ~10 pages in PDF format*