

fee_calculator.py

```
1  from datetime import datetime
2
3  # Fee breakdown for non-fatherless students
4  FEE_STRUCTURE = {
5      "Admission Fee": 0,
6      "Tuition Fee": 0,
7      "Absentee Fine": 0,
8      "Late Fee Fine": 0,
9      "Amalgamated Fund": 20,
10     "PTA Fund": 15,
11     "Sports Fund": 15,
12     "Other": 5,
13     "Continuation Fee": 200
14 }
15
16 TOTAL_MONTHLY_FEE = sum(FEE_STRUCTURE.values())
17
18 # Academic session months
19 SESSION_MONTHS = [
20     'April', 'May', 'June', 'July', 'August', 'September',
21     'October', 'November', 'December',
22     'January', 'February', 'March'
23 ]
24
25 def calculate_monthly_fee(fatherless: bool) -> int:
26     return 0 if fatherless else TOTAL_MONTHLY_FEE
27
28 def generate_fee_record(student_id: int, fatherless: bool):
29     fee_records = []
30     for i, month in enumerate(SESSION_MONTHS):
31         # Split session year: April-Dec is start year, Jan-March is next
32         year = 2025 if i < 9 else 2026
33         fee_due = calculate_monthly_fee(fatherless)
34
35         fee_records.append({
36             "student_id": student_id,
37             "month": month,
38             "year": str(year),
39             "fee_due": fee_due,
40             "paid": False
41         })
42     return fee_records
```

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