

IT314: SOFTWARE ENGINEERING PROJECT GROUP: 15

TOPIC: NEWS AGGREGATOR Sprints from Product Backlog

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IT314-Software Engineering

Sprints & Function point estimation

Sprint 1: User Registration & Basic Profile Management

• Unadjusted Function Point:

Туре	Weight	Value	Total
Internal Logical File (ILF)	10	1	10
External Interface File (EIF)	5	1	5
External Input (EI)	6	2	12
External Output (EO)	4	2	8
External Query (EQ)	3	1	3
Unadjusted Function Points (UFP)			38

Factor	Value
Backup and Recovery	2
Data Communication	2

Distributed Processing Functions	1
Is Performance Critical?	
Existing Operating Environment	2
On-line Data Entry	2
Input Transaction Built Over Multiple Screens	1
Master Files Updated On-line	
Complexity of Inputs, Outputs, Files, Inquiries	2
Complexity of Processing	2
Code Design for Reuse	
Conversion/Installation Included	
Multiple Installations	
Application Designed to Facilitate Change	

[➤] Processing Complexity (PC): 22

^{ightharpoonup} Adjusted Processing Complexity (PCA): $0.65 + (0.01 \times 22) = 0.87$

Sprint 2: Article Viewing & Basic Interactions

• Unadjusted Function Point:

Туре	Weight	Value	Total
Internal Logical File (ILF)	8	2	16
External Interface File (EIF)	4	1	4
External Input (EI)	5	2	10
External Output (EO)	5	2	10
External Query (EQ)	3	1	3
Unadjusted Function Points (UFP)			43

Factor	Value
Backup and Recovery	1
Data Communication	2
Distributed Processing Functions	1
Is Performance Critical?	2
Existing Operating Environment	
On-line Data Entry	2
Input Transaction Built Over Multiple Screens	1
Master Files Updated On-line	1
Complexity of Inputs, Outputs, Files, Inquiries	2
Complexity of Processing	2

Code Design for Reuse	
Conversion/Installation Included	
Multiple Installations	0
Application Designed to Facilitate Change	

- ➤ Processing Complexity (PC): 17
- ightharpoonup Adjusted Processing Complexity (PCA): $0.65 + (0.01 \times 17) = 0.82$
- ightharpoonup Adjusted Function Points (AFP): $43 \times 0.82 = 35$

Sprint 3: News Provider Management

• Unadjusted Function Point:

Туре	Weight	Value	Total
Internal Logical File (ILF)	12	2	24

External Interface File (EIF)	6	2	12
External Input (EI)	8	2	16
External Output (EO)	6	2	12
External Query (EQ)	4	1	4
Unadjusted Function Points (UFP)			68

Factor	Value
Backup and Recovery	2
Data Communication	3
Distributed Processing Functions	2
Is Performance Critical?	3

Existing Operating Environment	2
On-line Data Entry	3
Input Transaction Built Over Multiple Screens	2
Master Files Updated On-line	2
Complexity of Inputs, Outputs, Files, Inquiries	
Complexity of Processing	3
Code Design for Reuse	2
Conversion/Installation Included	2
Multiple Installations	0
Application Designed to Facilitate Change	2

- ➤ Processing Complexity (PC): 34
- ightharpoonup Adjusted Processing Complexity (PCA): $0.65 + (0.01 \times 34) = 0.99$
- ightharpoonup Adjusted Function Points (AFP): $68 \times 0.99 = 67$

Sprint 4: Reader Profile Management

• Unadjusted Function Point:

Туре	Weight	Value	Total
Internal Logical File (ILF)	10	3	30
External Interface File (EIF)	5	2	10
External Input (EI)	7	3	21
External Output (EO)	7	3	21
External Query (EQ)	5	2	10
Unadjusted Function Points (UFP)			92

Factor	Value
Backup and Recovery	2

Data Communication	3
Distributed Processing Functions	
Is Performance Critical?	3
Existing Operating Environment	3
On-line Data Entry	3
Input Transaction Built Over Multiple Screens	2
Master Files Updated On-line	2
Complexity of Inputs, Outputs, Files, Inquiries	3
Complexity of Processing	3
Code Design for Reuse	
Conversion/Installation Included	2
Multiple Installations	1
Application Designed to Facilitate Change	3

- ➤ Processing Complexity (PC): 35
- ightharpoonup Adjusted Processing Complexity (PCA): $0.65 + (0.01 \times 35) = 1.00$
- ightharpoonup Adjusted Function Points (AFP): $92 \times 1.00 = 92$

Sprint 5: Admin Controls & Analytics

• Unadjusted Function Point:

Туре	Weight	Value	Total
Internal Logical File (ILF)	12	3	36
External Interface File (EIF)	6	2	12
External Input (EI)	9	3	27
External Output (EO)	8	3	24
External Query (EQ)	6	2	12
Unadjusted Function Points (UFP)			111

Factor	Value
Backup and Recovery	3
Data Communication	3
Distributed Processing Functions	3
Is Performance Critical?	4
Existing Operating Environment	3
On-line Data Entry	3
Input Transaction Built Over Multiple Screens	2
Master Files Updated On-line	3
Complexity of Inputs, Outputs, Files, Inquiries	4
Complexity of Processing	3
Code Design for Reuse	2

Conversion/Installation Included	2
Multiple Installations	1
Application Designed to Facilitate Change	2

- ➤ Processing Complexity (PC): 31
- ightharpoonup Adjusted Processing Complexity (PCA): $0.65 + (0.01 \times 31) = 0.96$
- ➤ Adjusted Function Points (AFP): 111 × 0.96 = 106
- → Total sprints 5
- → Total Estimated Time for the Project: 10 weeks