International University of Business Agriculture and Feeh nology

> Mid Take Home Assignment spring-2021

Submitted To Camelia Sinthia Senion Lecturar Department of CSE

Md Patidal Dum

10. 1810302 4

See. I

Cownecode: CSC-469

Cowne Name: Software Engineering

Finetion p managemen	oint estimation pon t system:	Employee Office
The same of the sa		the plant
functionality	input	andput
Add pensonal into	Penmonent address, feligion,	Add to data bone
Edit Personal into	phone number. Fothers name, Mothers name, Date of birth, Present Address Permanent address,	Add to data base.
Seroch	Manifal status, brender. Enter seanch tent	Employee name, Employee LD,
Login	Emil, pm wond.	fathers more present add new. Onet Anthonized
	The second of the second of	

The same of	The state of the s	Link Marin
Took chart	Tak name, rewaind time, tak deserription	Tank added to
Tork distribution	Torkname, Employee names.	Employee emser than tank.
Attendence	Enter date	Cit of Employees
View Reports 1	Enter date	Report du cript Employee name Employee ID.

		5
Cogin (E1)	Filds: Employee File: Employee	3 1
working hours	Enployee name, Employee 10, Entry times	4 10 1 10 10 10 10 10 10 10 10 10 10 10 1
	file: Workinghows	
Pepont (E1)	Enployee name, report description, Date file: Report	3 1
Working	Enployee name, Emp1D, previous company name,	(4.3)
(e)	stating years, Ending year File: Employee,	2
	Work history	· (a)

	tion	Fieldy/file Involvement	ESPI	DET,
Log	Hu EI)	File: Ad min	2	
Add (E	Employee 1)	Employee 10, Employee name, Oute of birth, Email, phone file: Employee	5	1
	Employee	fields: Employee 1D. Name, prendelete; confirm file: Employee	ч	1
	sallary H (HLF) (EO)	Fields: Hourly rate, Festival born, Employee name, Employee ID, Working hours. File: Employee, salary, working how	5	3
	chent E1)	Took Name, Tack description, reavised time, Employee 1B, Employee Name. File: Tombs, Employee	5	2_

	7		
Attendence (E1)	Onte, Employae ID, Employae Name. File: Attendence.	3	1
view :	Date, Employee 10, Employee Name, Report description.	2-1	1
(E0)	File: Pepont		
	Hart Out was a south of the		
Onta function	fild /file Envolvement	RETS	DE
Enployee	Employee 10 Name, Father More, nothern name, Oute of With, Email, prosowon, Present add, Penmanent add, Matital status, Grender, Mobile		12
Wonkinghours	Employace ID, Name, Date Date, stan Entrytime, @ leaving time,	81	500

4				
	report	Employée name Employée 10, Extepont description, Date	91	4
		Emp-Nome, Emp-10, Privious company Name, stanting years, Ending years	2	5
	Sallary	Emp-Name, Emp LD, To but working hour, working Parte, partiral bonus	3	5
10 20	TMK	Took Name, Took 10, Took durchiption, time, Emp-Name, Employee 10	2	6
	Attendence		1	3

unadjust tunetion pois	estim	ation:	alute !	
a wat it			903	
Transaction function	DET, OTP.	鹏	complenity	UFP
Add Personal into (51)	9		low	3
Edit personal into (E1)	9		low	3
Jenneh (59)	(5-1)	2425	low	3
Login (E1)	. 3	1	tow	3
Working hour (E1)	4	1	low	3
Pepont (E1)	3)	low	3
Add Employees (E1)	5	1	low	3
Delete Employee (E1)	4	1	1000	3

Manage sallary (BEO)
Task chart (E1)

Total

Attendence

Average

35

2000

	10					-
	Onto Function	129	PETS	067,	complexit	up.
	Employee (ILF			12	ww	Z
12	Winking hour ((P)	119	5	low	5
	Report (FI		177	u	low	5
	sulary (EIF)		3	5	ww	5
	TASK (ILF)	0	2	6	ww	2
	Attendence (1)	-F)	1	3	low	200
	total			(1)) .	4
	Production of the second		1 60	3		
	July 1				The state of the	work to
	The state of	7			1	Pote 1
				1/2	a all and a	, LLA
				1.00		0.0
1			(624)			434
Service St.	201	1	to a	Pom	Also 20	17. 54
1		-		1		

	11
Performance and Environment impr	et:
6. Se (101 12 2) in the	01
Data communication	4-
Distributed Lata procening	4
Performance	4
Henrily used contignation	2
Transaction Parte	=971-3
Online duta Entry	4
Enduser Ethiciency	31
Orline up dre	3
lonplen processing	Tough
Remobility	2
Intallation Ease	2
operational Ease	2
Multiple site	D
Proillited facilitate change	2
Volue Adjustment Into Degree of Inthrence	33

112 value Adjustment faction (VAF) 2 (0.65 + (0.01 xID1)) = (0.62 + (0.01 x 33)) 2 0.08 17 Prisesons state to the distriction UFP = UFP (Tramaction Fn) + UFP (DATA Fn) 2 35+ 46 To My I who without Endmer & Hierord Adjust function point count = UFPXVAF 2 81 x.08 279.38 Stad mills Water Star starting agreed of the lines to talk the

Ettent ton C# = APP x Paoductivity

279 x 15.5

27224.5 per nows

= 153 person days.

Now Jan copining how I'm maistain software

ethically responsible way it they are to be respected as professionals.

Here 9 didn't take more thin time
then \$\psi\$ it need to preprayer.

9 there 9 maintain the perp pertect
timing, not more on not not less.

e) 9 didn't show more cost then it preeds. 9 estimate the perfect east for the project. So 9 eru say that here I maintain the so ethics.

29 ensure that here 9 maintain highest proffessional standard.

2) Software engineers shell be from to and supportive of theirown collegues. in The Track State & Male &

distributed for some for a Driving

Here we the plan to woid the effect of the nisk that I may tace:

Pisk Identification

Pisk type	Possible nink
Technology	Size of the memory of the system
Less to wain	may be segnitieantly low. D
of compare (Transmetion note of database may be slower tren expectation
-13 of 60	user interface may be complen
People	Lack of skilled staff convolvance
- Marie	the system up to the mank. 9
stay do an	lack of test administrator may
	not make the tost environment

	.0	
	The second	successful. 5
	Organizational	Pertriction on project
	a graves of	by agetet might exicute evente
		trubbe, inthe 6
		Insufficient human resorce
		event problem to himshed
	"Bernette"	in Leadline. D
	Tig ten House	HISK IDENTIFICACE
	- Maria	Unongavized project
100	St. Same and	scheduling also may creat
	AND MARKET IN	problem. (8) production
Par .	Tools	using old varion of the
0	was dead to the last	handwares may creat
8		problem in the project (9)
		Code generated by the
info	100 Fight 601	software code generation
	Mary and the	tools may inefficient on
	noted devices	Handdish crushed can my
	monivary to	bly thubble a

	17.0
Revuirements	major charge in the revuinn
	can wate the project unsucce
de sales	changing revuinment also chuse
and a	entra change. 3
Estimation	Misgudged of the software si
	Misgudged of the software si on create problem in tuture
	ignonace in waking time estimate may evente previous to the
	may evente prevouvre to the:
	developers on to the origination
Service of the Party of the Par	with out proper estimation of
	the cost its hard to perturate
	the proper east. 10
5 de marie	The same of the sa

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	P	ų		
PQ.				

Pish Analysis

The second of the second		
Pisk of the second	Probability	Effects
Site of the menory may be significently low	Moderate	senius.
Transacrate of Antabase may be slower then expectation	Moderate	serius.
User interfree may be complen	Modernte	senius.
hack of skilled stuff connot make the system up to the work	Moderne	entas trophie
Lack of test administration make the best invironment unsuccessful.	Low	Seriu.
nutrietion on project budjet enemte trubble.	low	ant an trophic
The state of the s	THE PARTY NAMED IN	

			0.190
	in deadline.	low .	Catan trophic
	Unonganized project scheduling also enente problem	low	serim.
	Vsing oldversion of the software hardware van ereste problem.	high	plenable
	code generated by the software code generation took may be inefficient	Moderate	Insignificant
	Handdisk enrahed may be big trubbbe	low	seminy.
	Major change in the reavainment	moderate	Sering.
	changing reasuinant also enure entra change	high	Tolerable

1	9
Sieles Ta	Missadount software size thigh Tolerable enn ereale problem
200	Ignorance in naking low seasins.
plates.	without proper atimation of asst it low entrappie hand to find the cost
new Speed	- Broken Broken
500	The dial with a share of wall to the
	Managora Property Service and the service and
dona	all and transment property of the series of

Pisk Planning	Shoop grant
Zish planning	stnategy
server storage size	Create enough storage for upcoming 5/10 years may make over this.
Ontrome Pentonmance	Investigate the possibility of buying higher-performed database.
lack of staff	onganize the term very well.
Hardware penbarmanee	Investigate the possibility to bying higher performed tind wo men.
Permitment problem	Alant customer to potential difficults and possibilities of delays.

1. 24.00	financial problems.	to the good of the business, presently
Secretary and the second	Underationation time citimation	
in idea	Rearinment changes	Derive tracerbility information to access reassinements ehouges impact maminize, information hiding in the design.
- 600	Proper cost estimation	Find all the necessary hardway and estimate time to make the pertect cost estimation.

Pisk Monitoring:

- There will be meeting with the strek hodors regularly. This ensure that the product we are making solver a problem.
- DTO reduce over interface complenity

 product will develope from the

 end over mind.
- 3) Always veep some backuplaning ton so The is some nearminments change we can write it partnetly.

- 9 The development east of the software increase by 20% consult with the system analyst during the system analysis, design and testing phone of the project
- (5) Inopen algorithm and Introferneture in followed to make the easte ensity understandable and neurable

By this way we enn manage our nisk at the time of software development

Use Case Diagram Office management system Add Employee Persove Enployee Marge Sallary Admin (Attendence Add Person I Info Edit Personal into Workinghistory view sallany report tank distribution

office management system.

Acton: Admin, Employee.

Description: I as an eustomen Admin login the system. I an anountomer admin en add one delete employee I am an admin can view the attendency of the employee, 9 m on admin can marage salary. I as an admin can can view the sollary of a employee. I as an Admin ear view report of an employee. I as an admin will logout the system. I my an admin distribute the tanks.

I as an employee login the system. I as an employee en add personal information also exit personal autor mation In an employee ean add my working history. 9 ai an employee en see my touts. 9 00 av employee our view my sularry. 9 as an employee can report to the admin. 9 as an employee can logored The system.

