Thème : Développement d'un outil d'assistance à la recherche de stage

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EN RECHERCHE DE STAGE

LOGICIEL A DÉVELOPPER

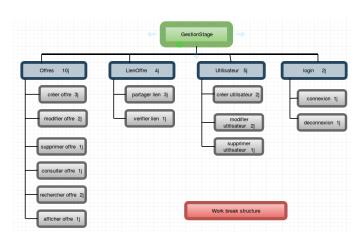


APPLICATION : Outil d'assistance à la recherche du stage



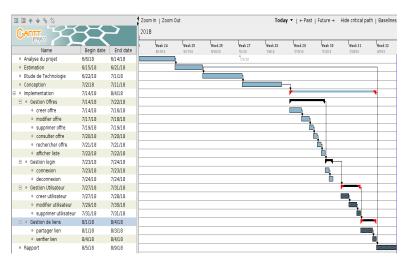


(1) Identification des tâches avec WBS





(2) Planification des tâches avec le diagramme Gantt





(3) Estimation du projet avec Use Case Point

A	Actor Summary		Number of Actors	Description		Unadjusted se Case Points	Multiplier	Number of Use Cases	Description	
1	Simple	1		Simple actors are other systems that communicate with your software via a pre-defined API. An API could be exposed through a dit, or as a REST, SOAP, or any web-service API or remote procedure call (RPC). The key element is they our are exposing interaction with your software through a specific well-defined mechanism.	1	Simple	5	13	Simple Use Case - up to 3 transactions.	
					2	Average	10	0	Average Use Case - 4 to 7 transactions.	
					3	Complex	15	0	Complex Use Case - more than 7 transactions.	
					Cá	lculated UUCP		65		
2	Average	2	0	Average actors can either be human beings interacting in a well defined protocol, or they could be systems that interact through a more complex						
				or flexible API.	Indi	idual Use Cases	Multiplier		Use Case Name	
	Complex	3	2	The original definition of complex actors specifies that users who interact with the software through a graphical user interface are complex	1	Simple *	5	Créer Offre		
١.				intensity will be survived in origin a pignima use intensity are competed actors. While that is net, the same classification should apply to users who intensit with the system in unpredictable ways. An AJAX interface that exposes more of the underlying application (and data stores) than would be available through a rind nontrool minist introduce similar.	2	Simple *	5	Modifier Offre		
3					3	Simple * Simple *	5	Supprimer Office Consulter Office		
					5	Simple *	5	Rechercher Offre		
					6	Simple *	5	Afficher Offre	iic .	
(alculated AW		6		1	Simple *	5	Partager Lien		
					8	Simple *	5	Verifier Lien		
					9	Simple *	5	Créer Utilisateu		
h		Multiplier		Actor Name	10	Simple *	5	Modifier Utilisa		
1	Complex *	3	Administrateur		11	Simple *	5	Supprimer Utili:	saleur	
#REF!	Complex *	3	Visiteur		12	Simple *	5	Connecter		
	locart additional rough above this roughed early the call values to automatically undetection counts of extern by time					Simple *	5	Déconnecter		
msette	insert administrations above unstow and copy the centralities to administrating update the counts of actors by type					Insert additional rows above this row and copy the cell values to automatically update the counts of actors by type				

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(3) Estimation du projet avec Use Case Point

To	echnical Factor	Multiplier	Relative Magnitude (Enter 0-5)	Description The architecture of the solution may be centralized or single-tenant, or it	Env	ironmental Factor	Multplier	Relative Magnitude (Enter 0-5)	Description
1	Distributed System Required	2	2	may be distributed (fike an n-tier solution) or multi-tenant. Higher numbers represent a more complex architecture.				(2	How much experience does your team have working in this domain? The domain of the project will be a reflection of what the software is intended
2	Response Time Is Important	1	1	The quickness of response for users is an important (and non-trivial) factor. For example, if the server load is expected to be very low, this may be a trivial factor. Higher numbers represent increasing importance of response time (a search engine would have a high number, a daily news concentric would have, a low number.	1	Familiarity With The Project	1,5	3	to accomplish, not the implementation language. In other words, for an insurance compensation system written in java, you care about the team's experience in the insurance compensation space - not how much leaving supprience in the insurance compensation space - not how much leaving written - thingle leavies of exceptione per la higher number
3	End User Efficiency	1	1	is the application being developed to optimize on user efficiency, or just capability? Higher numbers represent projects that rely more heavily on the application to improve user efficiency.		Application	0.5	2	How much experience does your team have with the application. This will only be relevant when making changes to an existing application.
4	Complex Internal Processing Required	1	1	is there a lot of difficult algorithmic work to do and test? Complex algorithms (resource leveling, time-domain systems analysis, OLAP cubes) have higher numbers. Simple database queries would have low		Experience	0,5	2	Higher numbers represent more experience. For a new application,
5	Reusable Code Must Be A Focus	1	1	numbers. Is heavy code reuse an objective or goat? Code reuse reduces the amount of effort required to defloy a project. It also reduces the amount of time required to defloy a project. It shared tilenay function can be reused multiple times, and fixing the code in one place can resolve multiple times, the higher the level of reuse, the lower the number.	3	OO Programming Experience	1	4	How much experience does your team have at OO? It can be easy to forget that many people have no object oriented programming experience if you are used to having it. A user-centric or use-case-driver project will have an inheently OO structure in the implementation. Heigher numbers becreased more OIC experience.
6	Installation Ease	0,5	2	Is ease of installation for end users a key factor? The higher the level of competence of the users, the lower the number.	4 Lead Analyst Capability	Lead Analyst	0.5	3	How knowledgeable and capable is the person responsible for the requirements? Bad requirements are the number one killer of projects -
7	Usability	0,5	1	Is ease of use a primary criteria for acceptance? The greater the importance of usability, the higher the number.		0,5	3	the Standish Group reports that 40% to 60% of defects come from bad	
8	Cross-Platform Support	2	1	is multi-platform support required? The more platforms that have to be supported (this could be browser versions, mobile devices, etc. or Whodows/CDSC/Links) the bidner the value.	5	Motivation	1	4	How motivated is your team? Higher numbers represent more
9	Easy To Change	1	4	Does the customer require the ability to change or customize the application in the future? The more change / customization that is resurred in the future, the higher the value.	6	Stable Requirements	2	3	Changes in requirements can cause increases in work. The way to avoid this is by planning for change and instituting a timing system for managing those changes. Most people don't do this, and some rework
10	Highly Concurrent	1	1	Will you have to address database looking and other concurrency issues? The more attention you have to spend to residving conflicts in the data or application. The higher the value.	Requirements			will be unavoidable. Higher numbers represent more change (or a less effective system for managing change).	
11	Custom Security	1	3	Can existing security solutions be leveraged, or must custom code be developed? The more custom security work you have to do (field level, page level, or role based security, for example), the higher the value.	7	Part Time Staff	-4	3	Note, the multiplier for this number is negative. Higher numbers reflect team members that are part time, outside consultants, and developers who are splitting their time across projects. Context switching and other
12	Dependence On Third-Party Code	1	1	Will the application require the use of third party controls or libraries? Like revusable code, third party code can reduce the effort required to deploy a solution. The more third party code (and the more reliable the third party code), the lawer the number.		Difficult			intannible factors make these team members less efficient. This multiplier is also negative. Harder languages represent higher numbers. We believe that difficulty is in the eye of the be-coder (groan).
13	User Training	1	4	Howmuch user training is required? Is the application complex, or supporting complex activities? The longer it takes users to cross the suck threshold fachieve a level of mastery of the product), the higher the	8	Programming Language	-1	3	Java might be difficult for a fortran programmer. Think of it in terms of difficulty for your team, not abstract difficulty.
C	alculated TCF		0.845					0.95	

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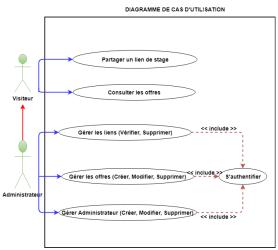
ons From Other Tabs						
Unadjusted Use Case Points	0,95 65					
AW Actor Weighting						
on of Use Case Points						
Use Case Points	57,0					
on of Estimated Effort						
Hours of Effort per Use Case Point	20					
Hours of Effort 1 140						
Steps to Calculate Use Case Points						
For all tabs, enter values only in the highlighted cells						
Identify Ose Cases on the Ose Case tab						
	Technical Complexity Factor Environmental Factor Unadjusted Use Case Points Actor Weighting on of Use Case Points Use Case Points Use Case Points Of Estimated Effort Hours of Effort per Use Case Point of Effort to Calculate Use Case Points For all tabs, enter values only in the highlighted of Enter Technical Complexity Factors on the Technical Complexity Factors on the Environment Identify Use Cases on the Use Case tab					

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SOLUTION PROPOSÉE



(1) Diagramme de Cas d'utilisation



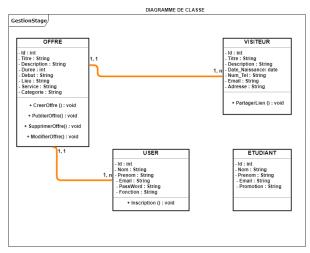
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(2) Diagramme de Classe

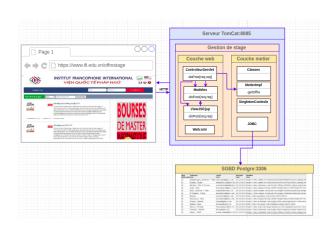


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SOLUTION PROPOSÉE



(3) Architecture Générale



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DÉMO



Démonstration!!!

GestionStage

RESULTATS ET BILAN



Au terme de ce travail, nous pouvons dire que nous avons globalement atteint les objectifs qui nous été assignés.

CONCLUSION



Ce travail nous a permis de bien comprendre l'utilité des méthodes d'estimation de projet tels les points suivants :

- ► The Work break Structure;
- ► La planification avec le Diagramme de Gantt;
- ► Estimation avec Use Case Points;
- ► Par contre,l'utilisation de ces méthodes peuvent dépendre de l'appréciation de chaque équipe.

Références



- [1] https://archive.ics.uci.edu/ml/datasets/Student+Performance
- [2] http://eric.univ-lyon2.fr/ricco/tanagra/fr/tanagra.html
- [3] https://fr.wikipedia.org/wiki/Exploration de données

Merci pour votre assistance!

