Meeting Notes:

Date: 10/30

Objective: Delegate Tasks + Configure more concrete Timeline

External Notes/Notes made in meeting in PURPLE

Deadline: Friday 11/17 by 11:00 pm: (

* 50% of your final project grade) Submission of Final Project deliverable 2.
* Please designate ONE MEMBER of your team to turn in you proposal via eLearning.
* There will be a Final Project Proposal Assessment created on eLearning for you to submit your group proposals.
* One submission per group please.
* designate one group member to submit all group related documentation to

The following is required for the Final Project Deliverable 2 submission:

* The title of your project
* The group members (firstname and lastname)
* Well described delegation of tasks, i.e. who did what in the project.
  + Can we make a note to the TA that we divided things a little differently? As in the members that had a heavier workload in Project Deliverable #1 are taking a lighter load this deliverable and the people who got to take it easier on Project Deliv. #1, get to take a harder load?
  + This part does not rely on any other components
* Please make sure to fairly distribute tasks in the team and remember that each member of the same team will receive the same grade.
* Everything required and already submitted in Final Project Deliverable 1

**IMPORTANT NOTE:** The following items will all need to be calculated / worked on based on the project you are designing. As an example, if a team of 7 students in CS3354 class is working on the development of a hospital information system, this group will prepare the project scheduling, cost, effort and pricing estimation calculations based on the hospital information system design, NOT based on their 7 people team. Think of the analogy to the “Inception” movie: What you will be working on is the dream in a dream, i.e. the dream in the second level, NOT in the first level.

* Project Scheduling, Cost, Effort, and Pricing Estimation, Project duration and staffing: Include a detailed study of project scheduling, cost and pricing estimation for your project.
  + Divide this part into two tasks
    - so one person is focusing on scheduling/project duration/staffing
    - Other person is focusing on costs
    - These two roles \*shouldn’t\* have to rely on any other roles
  + Please include the following for scheduling and estimation studies:
    - Project Scheduling. Project Scheduling. Make an estimation on the schedule of your project. Please provide start date, end date by giving justifications about your estimation. Also provide the details for:
      * Whether weekends will be counted in your schedule or not
      * What is the number of working hours per day for the project
      * Recommend using our original model (Spiral) for establishing the timeline
        + Make sure to factor in whether we’re doing alpha/beta testing + incorporate that into the timeline
      * It appears that the scheduling component of the project is NOT relying on anything else
* Cost, Effort and Pricing Estimation. Describe in detail which method you use to calculate the estimated cost and in turn the price for your project.
  + Please choose one of the two alternative cost modeling techniques and apply that only:
    - **Function Point (FP)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Function Category** | **Cost** | **Complexity** | | | **Count x Complexity** |
| **Simple** | **Average** | **Complex** |  |
| **1** | **Number of user input** | **5** | **3** | **4** | **6** | **20** |
| **2** | **Number of user output** | **4** | **4** | **5** | **7** | **28** |
| **3** | **Number of user queries** | **3** | **3** | **4** | **6** | **9** |
| **4** | **Number of data files and relational tables** | **5** | **7** | **10** | **15** | **50** |
| **5** | **Number of external interfaces** | **2** | **5** | **7** | **10** | **20** |
|  | | | | | **GFP** |  |

* + Q1: 4 Q2: 3 Q3: 2 Q4: 5 Q5: 5 Q6: 5 Q7: 2 Q8: 3 Q9: 3 Q10: 3 Q11: 3 Q12: 1 Q13: 3 Q14: 5
  + GFP = 127
  + PCA = 0.65 + 0.01 (4+ 3 + 2 + 5 + 5 + 5 + 2 + 3 + 3 + 3 + 3 + 1 + 3 + 5) = 1.12
  + FP = 127 x PCA = 127 \* 1.12 = 142.24 FP
  + Productivity: 5 function points per person week b/c not familiar with developing a project of this scope
  + E = FP/ productivity
  + E = 142.24/5 = 28.448 = 29 person-weeks
  + Team size = 10
  + Project duration = E/team size = 29/10 = 3 weeks
  + Estimated cost of hardware products (such as servers, etc.)
    - Company laptops: $1500 x 10 = $15000
  + Estimated cost of software products (such as licensed software, etc.)
    - Jira: $1600 - https://www.atlassian.com/software/jira/pricing#
    - Google cloud services: (~$5000/month) : [Pricing | Cloud Storage | Google Cloud](https://cloud.google.com/storage/pricing)
    - Google Maps API License – dynamic maps - $1500 a year
      * Source(?): https://mapsplatform.google.com/pricing/
    - Falcon Pro
      * $499.95
      * https://www.crowdstrike.com/solutions/small-business/
  + Estimated cost of personnel (number of people to code the end product, training cost after installation)
    - **Employee engagement:** 
      * **$500 a month sounds good**
    - **10 people** 
      * **$65000 a year for salary**
      * **Training cost:** 
        + According to the Harvard Business Review, on average, employee retraining costs a company about $24,800 per worker [13] (time spent training as well, includes money they would originally get paid)
        + <https://hbr.org/2021/07/make-sure-your-companys-reskilling-efforts-pay-off>
* A test plan for your software:
  + Describe the test plan for testing minimum one unit of your software. As an evidence, write a code for one unit (a method for example) of your software in a programming language of your choice, then use an automated testing tool (such as JUnit for a Java unit) to test your unit and present results. Clearly define what test case(s) are provided for testing purposes and what results are obtained. (Ch 8)
    - Creating user object
      * Reference Sequence DIagram
* Comparison of your work with similar designs. This step requires a thorough search in the field of your project domain. Please cite any references you make.
* Conclusion -
  + Please make an evaluation of your work, describe any changes that you needed to make (if any), if things have deviated from what you had originally planned for and try to give justification for such changes.
    - I think someone mentioned that we should have used MVC for our architecture? We could mention this
* References: Please include properly cited references in IEEE paper referencing format. (You may see a referencing example in the sample IEEE paper in URL: <https://ieee-dataport.org/sites/default/files/analysis/27/IEEE%20Citation%20Guidelines.pdf>) It means that your references should be numbered, and these numbers be properl cited in your project report.
  + [1], [2]

Also include:

* Your presentation slides
* Implemented code (the complete code, if any. Otherwise the unit required in the “A test plan for your software” section described above). Please note that an implementation is not required for your project. It is optional and if you choose to do so, your work may qualify for a potential publication as a scholar article.

GitHub requirement:

* Make sure at least one member of your group commits everything for project deliverable 2 to your GitHub repository, i.e.
* Your final project deliverable2 report
* Unit test code for a sample unit of your project
* ~~Implementation code (if you have implemented your project) (optional/bonus)~~
* Presentation slides

Still, one member of your team should also submit the required project deliverable 2

materials to eLearning.

(NO EXTENSIO