CS201 – PROBLEM SOLVING & PROGRAMMING II PROGRAM 5 (GROUP PROJECT) PLANNING DOCUMENT 2 – DATA ACTIONS

1. Think about those in the community you are helping and the data (classes) you have decided upon. Which data structure(s) (linked lists, queue, or stack) will be best to track this data? Explain this below:

HOLPS People who need way to sout stosse

2. What other actions (functions) that you will need to perform to complete the outcomes you are trying to achieve. Think about the data that needs to be available for the function (preconditions) and what output or data update will be performed as a result of your function (postconditions). List as many things as you can think of in the table below:

FUNCTIONS	PRECONDITIONS What data that needs to be available?	POSTCONDITIONS What is updated or produced from this function?
add New Commission	Communication CD	A new commission is added for the client
addClient	dient list	update client hist with new client.
File File	infile (zaput).	chant and push into exector accordingly.
Save	climated connistist	purges txt file & overwnites zt with updated ento.
renuttender	nore	priors.
print Menn	chiens hist wan List	from me me as
upelate	client hist countries	(ie update functions.
delette Commission	client hist Commission Ligh	deletes all commission from the list.
update Active Comms	Nove	be the size of after comms to vector.
Sort Price Sort Photob	sends in character shout (y/n)	by price / prorty.

The 'actions' to be taken on the data-will help you decide & describe what needs to be included as part of your input. Write some sample data to be 'input' into your data structure of object types: CSV Storing raw Lata per comis. + client. output appeted of vittor input next time b. Consider how you will test your input, data, logic. What are some error checking opportunities if clients have some name, different ID, c. How will you verify that your program is accomplishing the intended goal. While 100Ps that prevent leaving until suitable guswer propiles d. Group other functions - which are related or rely on another function to provide information? Ex: The basic class functions (accessors & mutators) and data structure functions (push, pop or enque, dequeue) need to be ready to go before any of the other functions are written. Reading a file or inputting from the keyboard will require logic to check for errors before adding the object to your data structure. Begin assigning these logical groupings to each group member. List these jobs below. Comis class

Print - Print Client LIST comis Let

3. Begin considering input & output from your program:

a. What will the input look like (csv file? csv file & menu driven? menu-driven only?)

CS201 – PROBLEM SOLVING & PROGRAMMING II PROGRAM 5 (GROUP PROJECT) PLANNING DOCUMENT 1 – CLASS DATA

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1. Brainstorm as a team. Think about people in your community: what would be important or useful for them to track in a community organization or activity or to help your community.

For example, you could create a class to keep track of community events, club activities, athletic games or statistics, community leaders, performers or performances, health tracking, or another subject of your

List ALL ideas discussed:

- Personal banking; Keeping track of financer one Physical cash/coins
- Pokemon: tracking cost of Cards, Freating Sets, Seeing Low much each it worth
rand().
- tracking clients & commissions: Clienteclass, comiselvid, diff frices per comis.
Finter/privitize vip lift discuss 15tes for crows
lifterent sort options faithe, comis. 5;20, comis. cost, etc)

2. Choose the top 2 ideas as a team and list those below. Briefly describe why you think these 2 ideas would the best to implement.

Tracking clients/commissions.

Personal Bunking

Thay're the most practical,

and people who create things as their job to have a convienient way to track the many expects of their job.

Brainstorm the data items you would need to track. Include the type of data for each (string, integer, etc.). Think about the relationships between the data. You will be expected to implement a base (parent) class and a linked list of objects of the base class. class client 5. Organize this data into the UMLs for your classes. Include constructor, accessor, mutator information, copy constructors, destructors. It is understood that this may change for the final project. need of Chelk if cliput name isn't in List, then can constructor, Vector / Lonnission - Uring name - Jouble discount - nat num Active Comm - int event. ID] - POINTE NO X+CTIENT + Void and Comist) + and to Vector + vois homove com's () + removes from roccor in uldule Progra time spent onit, price, Class commissions Also filter -in+ Progress (0-99) -int ID - point or 11 x (com.) < int cliental) - Double price - Double Time Spent (in hairs) - int elierity + crom calculation of price + I gions has spent John by Polsey + State int weat Lemis Exp - Storic int total Active Comis

note, since two linked lists, we need linked fish to By nov 2012, he a parent of our classes? on, we need to Jesigh classes of linked 1132 type? NO Kommoth: Lesign basics of client class dot of type is going to be of type commits or event sylvia: Lesign basics of commissions. be we sectore in main "Linked 1:5+1". [vould we have two separate code depinists? NO using a template would be better. Where the unive functions should be stored is under comis Functions or enimplementions. h office 1: - credite new list using create ordered, which passes in other unordered list FIERE OF HE PURC So, have to sort oparaz: - Create temp list, then sort temp, then over write original every time] solved by - HOW TO WE STRUCTURE YOU IN put file? (+ WO FORMATS) 1: "Client, name, bient ID, discount, Numberive Comis, num Total Comis, Comis IDI, comis IDI, ... and Type identifier extra fields to be put into Vector Charlotte a money of extra fields) 2: Commission, comis ID, crientID, price, time spend, priority, isfinished, progress any tyle - One places Raw Fire () required, with if statement. If type 10 == "client" : < Kenneth Urites this> These viry be consolidate else if TypeID == "Commission" : < Sylvid writes this > I When forming actual code PRE: Et puis in the whole line of takes first word passes remaining line through to corres Need Child (1965 Of Linked for Client + com Why not just one class per instead, no need to overcomplicate When treating new comis north to able it to client. If you know client ID, Sort in - Way 1 call general print Filter: Print if in field = inputted filter EN SOVE NOV 20th: Make a Write to our raw input file function expound delete node functs Bearly for target node, del] News to relete ID in client class when comis is finished Vite Print func

By nov 20:

Konnett: Creates roda file coso, creates template Linked 1154

creates alout class

Sylvia: creates comis class, creates sorts, creates filters

By hor 27:

Kenneth: 49 Late functions, prints

Sylvid: error checks

Dear the +40 11sts + how they connect (Primary Key)
Primprice () {
adjorders by Price()
Overwhile orig with tempton
Ecout x.
$\lim x = 5$
1 intercommosson X;
X. Printprice() + Prints sortes. Sorting is remporary
Write Print Statements [Print du, Print Sortes] Write Jelete Node
Calculating Priority Commis ID
int x = "d"
-bref-shellsh -chiken -pok <-fish Trice()

