SIES Graduate School of Technology

Subject : 95 Roll No.: 119A1076

Assignment No. 2 Date

Date : 1/12/26

工	Problem analysis & specification
	SLOT ALLOTMENT
	Not servecte Rioditize Nodify
	Ly Request 1) have seconded to route o
	for office in sosted order display sort order
	La Request to seatch for
	for dep specific girline
正	Abstact Data types
	5 M. Sanger and W. L.
	Dota: Readds - Josef Story a-name
	Operation: suf() - To sort according to frequency comparel - To search for putticular airline. Data: Request - Text string visitie
	composel - To seatch for pulticular ailline.
	Data : Request - Text sting sidire
	Sent string reg (input: a/d)
	Operations: - modify() - To append the slot ostangement
	display()- To display appel updated order
TI	Solution Design
	For the process to be handled by the
	software in the given scenatio, addition of new values to existing data structure is key. This
	values to existing data structure is key . This
	encompasses all cases of adition of a new
	element; adding at beginning, adding at end, adding
	of les a costain element. Another point of impostance is composison by prioritizing. For this process,
	is composison for principly. For 174 proces,
	seasching for an element in a data structure should have low
	Page No. /

To fulfill the above requirements we have seconds stored in AVL tree with node as struct node [int fequency; string a-name; struct note left; 3 shat note " right; Slot oila struct mode { string airline; struct note a left. struct node right, This stor gives us the best time complexity for both search and adding, Page No. /