Task	Sub Task	Dependency Owner	Status	Due date	Notes/Issues
Capstone Schedule	e - Task List	Thong	Done	10/4	Ongoing updates
	https://docs.google.				
Mookly Mooting No	com/document/d/1IUTJGo2NP8Zyq8PR-mjt4UX- ot _vdo74YvDBApfbOP9oc/edit#	Thong	Ongoing		Ongoing updates
Vorkshop 1	ot _vdo741VDBApibOF90c/edit#	Thong	Origonia		Origonia apaates
voikshop i	Coons	Thona	Done	10/3	
	Scope	Thong			
	Schedule	Sarah	Done	10/3	
Presentation 1				10/10	
	Draft Outline - slide 1-3	Sarah	Done		Suggested Division of slides: Sarah (1-3);
	Slides 4-6	Zhongqiao	Done		
	Slides 7-8	Shankar	Done		
	Slides 9-10	Thong	Done		
	Get images and beautify	Thong	Done		
	Post it	Thong	Done		
Project Description	to post on wall			10/10	
	First Draft	Sarah	Done		
		Thong, Shanka	r,		
	Edits	Zhongqiao	Done		
	Post	Thong	Done		
Presentation 2	Presentation Outline	Sarah	Done	11/9	
	First Draft	All	Done		
	Get images and beautify	Thong	Done		
	Post	Thong	Done		
	1 000	mong	Done		
) Read ticker data	for S&P stocks from Yahoo Finance	Thong	Done on 10/6	10/6	
) i toda tionor data	Full data dump (start date = 2000-01-01)	mong	1009		
	Incremental data dump		1009		
	Unit test		100		
	Check-in code, data		100		
2) D = = d d=t= f== == :		Sarah	Done		Note that the second of the se
2) Read data from		Saran			Not very useful because not histroical; can work on building in for real time updates
	Current and historical data?		1009		
	Unit test		1009		
	Check-in code, data		1009	%	
) Read historical r		Zhongqiao	Done		Only got data since 2010. Will try google API
	Full data dump (start date = 2015?)		909		Google api can get back as far as 2015
	Incremental data dump		909	%	
	Flag: Q1, Q4, FY	Zhongqiao, Sai	ah	11/12	Not feasible because news data don't always contain quarterly info
) Read revenue da	ata about a company	Shankar	Done	10/8	
					Comprehensive Data available via API from Datanyze or FullContact. But only 100 API calls per month
	static data dump: company size, employees				are free, basic subscription fee of \$99 per month allows up to 2500 calls per month
	300 stocks	Shankar	Done	11/17	
	Dividend, PE ratio (not historical), revenues (historical?)	Shankar, Thon		10/8	Revenue and Dividends done, searching for FREE historical PE ratio.
	Historical data - Full (start date = 2008)		complete for b'Date, Open,High,Low,Close, Volume,Dividend,Split, Adj_Open,Adj_High, Adj_Low,Adj_Close, Adj_Volume\n' based upon stock symbol		Thong: where is the sp500 data?: No free data available. We can try to get data for \$40 - \$99 per month.
	2000)		-p-::: 5.55K 6J 111661	.0/0	Have not found any free sites that offer Historical data
				10/8	Basic client committed, works on specific ticker symbol, more development will happen in coming weeks

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5) NLP on news				Done		11/	Must be done sooner than 11/10 to unblock baseline, final model	
	sample output data		Zhongqiao	Done				
	Remaining data (340)		Zhongqiao	Done		11/1	8	
	Generate sentiment analysis scores		Zhongqiao	Done				
	Finalize feature extraction		Sarah			11/2	Basic features for MVP, better features to come for next round	
C) III (M) (D)						11/1		
6) UI (MVP)	Basic Wireframes		Sarah	Done		10/2		
	Review Wireframes		team	Done		10/2		
	Basic Flask Apps		Sarah	Done		11	6 MVP	
	Code for basic flask app up on github (with local-ly runanble	o html filos)	Sarah	Done		11/1		
	Static HTML pages for main page explaining what and risks		Zhongqiao	Done		TDB	2	
	Basic formatting on interactive page	Code on githul		Done		TBD		
	Connect the flask to back end		Thong	Done		11/2	0	
	Finished Flask Apps	0,8	Sarah/Thong	Done		12/0		
			_	Dulle	50%	12/0	!	
	Improving UI Deploy App to AWS		Thong Sarah	Done	50%			
	Automate git pull from AWS		Sarah	Done	50%			
	Automate git pull from Avvo		Jaiaii		50%			
7) Baseline Model								
	Build training and test data (just stock prices)		Thong	Done		10/1	5	
	basic model with just price data	•	Thong	Done		10/2	The current model is not good at prediction stock price. Will have to try others	
	normalized data	•	Thong	Done		10/3	0	
	Unit test		Thong	Done		10/3	0	
	Check-in code		Thong	Done		10/3	0	
8) Final Model						12	<mark>6</mark>	
	LSTM model with just price data		Thong	Done				
	price + other financial + NLP news data	1,2,3, 5(?	Thong	Done			This is the most laborious step to integrate and rerun everything	
	identify stocks with highest returns		Thong	Done				
	train & predict with 500 stocks (30, 45, 60 days)		Thong	Done				
	Data Analysis to narrow down features to use		Thong	Done				
	Tuning for overfitting		Thong	Done				
	Unit test		Thong	Done				
	Check-in code		Thong	Done				
9) Use ML output to	Use ML output to recommend portfolio given investor goals (given risk choice, 7,8				11/3	0		
,	Output: top 10 list of stocks		Thong	Done				
11) User evaluation	Conduct survey and create MOSCOW list		Sarah	Done		12/	3	
	Remove input amount		Thong	Done				
	Display top 10 results		Thong	Done				
12) Finalized UI								
,	Revamp UI for better usability		Thong	Done				
	Redo UI to serve table instead of graph		Thong	Done		4/1	2	
	Images of potential graphs on slack		Sarah/Shankar	Done		2/1	2	
	Develop background page that communicates value							
	propositon		Sarah		40%	3/1		
	Deploy latest code to AWS		Sarah	Done		4/1		
	Get S&P500 Index fund data for 30, 45, 60 day gains		Zhongqiao	Done		3/1	2	
	Display the fund's avg gains on the UI	Data from index fund	Thong	Done				
	Display the fund as baseline in UI	Data from index fund	Thong	Done				
	Implement improved graph		Sarah	Done		3/1	2	

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	Second Round of UI testing	Updated U	Sarah	first tests of background text done; full user testing appointment scheduled weekend of 9 and 10	10/12		
Nice to haves:							
	Improve graphic design of main page	Other main UI changes	Shankar?/Sarah				
	Show more information about companies						