

Intro to NUS Business Analytics

☆ By Ivan (Y3 BZS) Senior Sharing!



Agenda



01 BZA?

02 Internships

Real world experiences

03 Student Life

Do I really have to study all day?

04 Tips and Tricks

What helped me when I was in your shoes



Money?

Passion?

Why BZA?

Tried coding?





What can I do in the future?



- Skills learnt in BZA can be applied to various industries (e.g. Finance, Tech, Consulting, Marketing)
- You will be valued for not only your diverse technical skills, but also your soft skills
- Some relevant roles (non exhaustive):
 - Data Analyst
 - Business Analyst
 - Software Engineer
 - Product Manager
 - Data Engineer
 - Data Scientist



Y1S1 Y1S2 Modules

*My Personal Opinion Difficulty may vary across students





CS1010S (changed to CS1010A)

Difficulty: class/home work is at a 4/5 but exam was a 4.5/5

Workload: 5/5

- I'd recommend putting in **effort** in doing the (non-compulsory) tutorials sheets and problem sets, actl fun
- Practice makes perfect—don't be afraid to make your own notes etc



Modules

IS1108

Difficulty: $\frac{1}{5}$

Workload: $\frac{1}{5}$

Change in module name from 'IS1103' should be non-problematic



MA1521

Difficulty: 3.5/5. Content is understandable, mostly JC material.

Bell curve is very steep :(

Workload: 2.5/5 (do the non-compulsory tutorials)



Modules

BT1101

Difficulty: 3/5

Workload: 4/5

Compulsory, graded weekly tutorials (just very mafan and long winded)

- Score-able if you consistently put in effort for the tutorials (pls do! Its a grade decider)

MA2001

Difficulty: 3/5. Tutorials are non-compulsory

Weekly quizzes relatively doable

Workload: 2.5/5 (depends if you do the non-compulsory tutorials, i'd recommend you do)

Homeworks are vvv difficult, set time for post-quiz crying sesh

Difficult module to understand, but exam qns more manageable



Modules



IS2101

Group work project mod for
BZA and IS kids
Difficulty 2/5 workload 4/5
Cannot choose groupmates,
can choose tutorial groups
which increases your
chances of being grouped tgt
Timeconsuming because of
project meetings
One of few mods that need
“class part” to the max



BT2102

Difficulty 3/5, Workload 4/5
Can choose groupmates (the
right groupmates make or
break ur mod)
Timeconsuming bc coding (a
LOT of it, self learn)
Overall fun module tho, we
enjoyed it.

CS2030

Difficulty: 4/5
Workload: 4/5 (some people
do it very fast, some people
take 3 nights/week)
Compulsory weekly problems

- Project!!! Do it fast
don't leave to the last
week i'm begging
- Lab slides info may
seem less relevant for
the labs BUT VIMPT TO
SCORE FOR FINAL
EXAM(learnt the hard
way)






UE's?



- Balance your high workload modules with low workload modules and GE modules!
- Read up on the GE's, what others find easy and fun may not be your cup tea, and you may not score well either. Can take this time to explore something you can't explore in SoC
- Can take a module you're curious about! (Accounting, Economics, Social mods, biz mods) ...
- Go to Major/Mnor requirements!





Y1

Winter / Summer

- Y1 Summer (ie the summer before Y2)
- 2-people team, can choose groupmates
- Orbital proposals start mid Y1S2 so can start thinking of teammates by then!
- Almost everyone does because you learn a lot!



Problem Statement

Many modules in NUS have different unofficial communication platforms for students, be it telegram groups, discord channels, piazza, and many more. These are effective platforms for mutual learning between peers yet the accessibility to these platforms is limited due to the lack of a centralized platform for all modules and the lack of publicity or platform to source for these channels of information.

Aim

Our group identified this problem and aim to create a centralized mobile application communication platform specifically for NUS students, where they will be able to efficiently search and join respective module groups and communicate with people who are also in that module group through the platform

Key Features



Module Search

Search for your specific modules via our module search function and join the chat room



Group Chats

Interact with those taking the same modules as you in a chatroom



Profile Creation

Personalise your profile with relevant details that can be viewed by others



Privacy Settings

Choose what type of information you would like to display to others

Software Engineering Practices



Biweekly Scrum with Project Mentor

Our team will seek valuable advice regarding technical expertise and good software engineering practices



Version Control using GIT

Git commits and tagging were used to keep track of all the changes we have made throughout our project.

Reflection / Future Plans

The entire process of developing this application was a fruitful process for both of us where we not only picked up technical skills (React Native, Firebase) but also learned many industry-standard software engineering practices that we felt were invaluable to us. Moving forward, we recognize that there are still many areas that we want to improve on for this application such as Android-compatibility and we will continue to work on increasing the functionalities for our application.

Developed by:
Chan Chang Yu, Linus
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Contact us respectively at:
@linuschan
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Powered by:







Kanban Board Issues Tracker

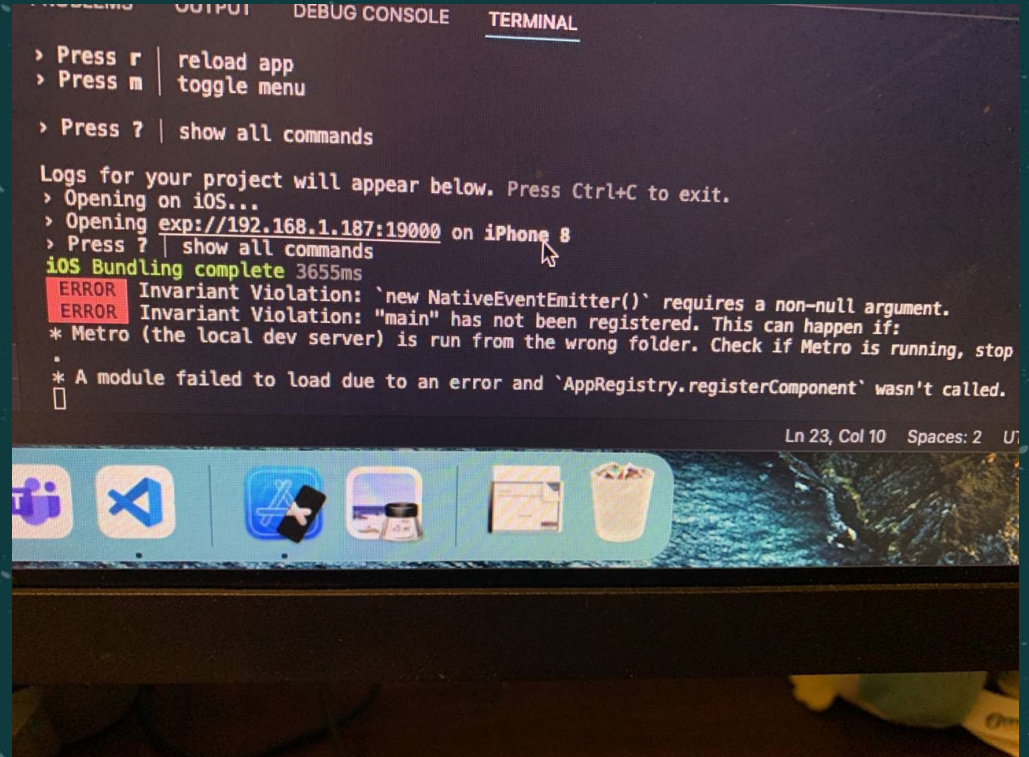
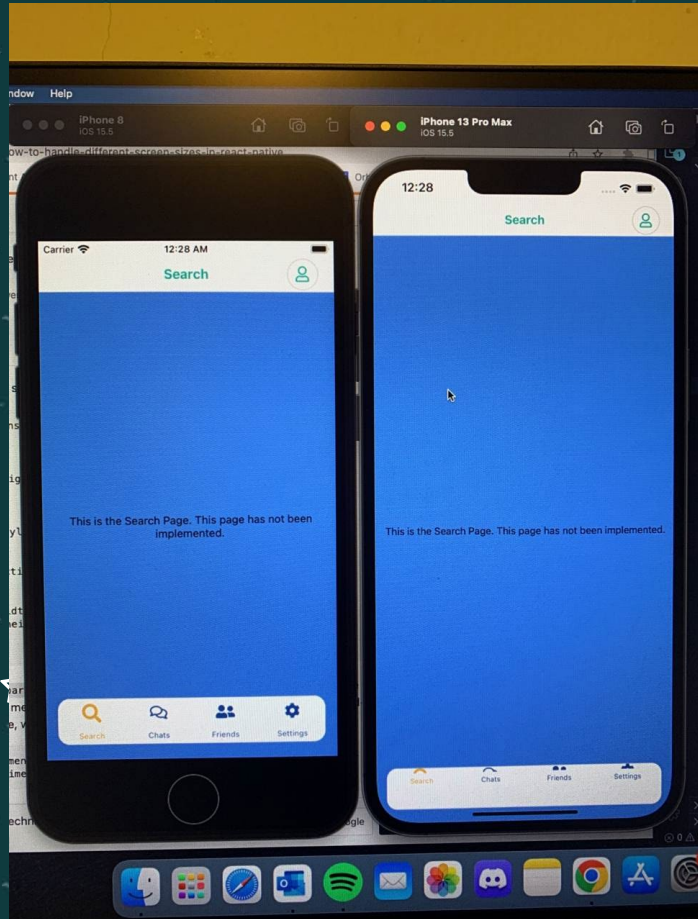
We adopted the use of Notion's Kanban Board to keep track of the various issues and features



Backend Chat Structure

Firestore database was adopted and various collections/documents were used to manage our chat structure

Orbital



- OGL, Gamemaster,
Orientation Committee

Participate in
★ Freshmen
Orientation
Events

Internships



- Don't need to get an internship[☆] in year 1!!!!
- Perfectly fine to be chilling or learning your own projects on the side or just living life/ go on hackathons with friends for fun
- Don't need stress about it! Usually ppl intern in y2 / y3, but if you wanna try interning you can! But if you don't get it, its okay too.[☆]

[☆] Internships?



How to land one?



1. What am I interested in? Do I have an interest?
2. Tailor your resume to suit the job you are applying for
3. Find them on TalentConnect (School Portal), LinkedIn etc
4. Interview (Technical/Non Technical Rounds)



☆ ATAP (Advanced Technology Attachment Programme)

Apply via TalentConnect

If shortlisted, will have to do a technical assessment (HackerRank), and subsequently 2 rounds of interviews)

☆ Very good opportunity to gain work experience over a longer period of time (6 months), hone your technical/non technical skills



Student Life





So many things to do!



Friends? Camps/Interest Groups/Sports CCAs



Inter Faculty Games 2022



Freshmen Orientation Week O'Comm 2022



So many things to do!



Hone your skills? Hackathons/Academic Clubs

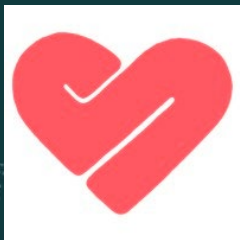




So many things to do!



Help Others? TA/Community Service



Tips & Tricks





Picking modules tips!



- Try not to overload in Y1S1 (max. 22MCs unless double major/degree, etc.).
- Some people find that Y1S2 is a good time to overload! But don't overload just because everyone is overloading
- Take modules that can be SU'd in Y1
- The sample module plans give by the department are actually very good samples!



NUSMods- timetable planning

[search “nusmods” on google]

NUSMODS

Today

Timetable

Modules

Venues

Settings

Contribute

Whispers

MA1521

Calculus for Computing

Mathematics • Science • 4 MCs

Semester 1 • Semester 2

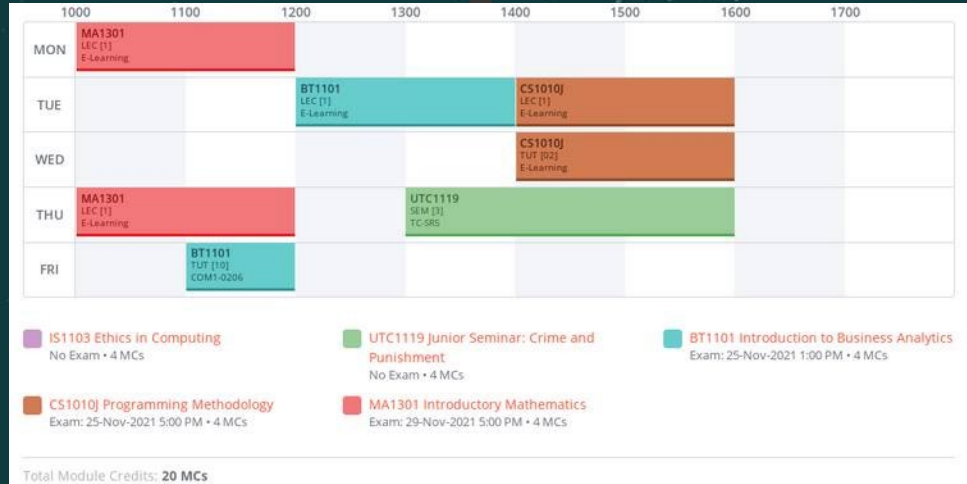
This module provides a basic foundation for calculus and its related subjects required by computing students. The objective is to train the students to be able to handle calculus techniques arising in their courses of specialization. In addition to the standard calculus material, the course also covers simple mathematical modeling techniques and numerical methods in connection with ordinary differential equations. Major topics: Preliminaries on sets and number systems. Calculus of functions of one variable and applications. Sequences, series and power series. Functions of several variables. Extrema. First and second order differential equations. Basic numerical methods for ordinary differential equations.

Prerequisite
GCE 'A' Level Mathematics or H2 Mathematics or H2 Further Mathematics or **MA1301** or **MA1301X**

Preclusion
Students reading a primary major in Mathematics/Applied Mathematics/Quantitative Finance/Data Science and Analytics, **MA1102R**, **MA1312**, **MA1505**, **MA1507**, **MA2002**, **MA2501**, **FoE** students, **YSC1216**

Additional Information

- ✓ Included in Semester 1's Module Planning Exercise
- ✓ Included in Semester 2's Module Planning Exercise
- Has S/U option for undergraduate students only



Try to take **Stable** mods in Y1!

List of useful tips

- Don't need to start learning coding in university! But important to keep up with coding mods—don't let your doubts accumulate as it may be more difficult to keep up with everything towards the end
- Join extracurriculars, find friends you can do mods with!
- DO mods with friends!
- Be a good teammate (will pay well for people to know you're someone who picks up their own weight!)

What to expect in SoC?







What I learnt in my 2 years so far



- If you are not doing well for studies, do some internships. Can't find internships, do projects, no time for projects, enjoy your uni life
- It is easy to get lost in the rat race, remember to take sufficient breaks (your health comes first)
- Speak to your seniors/TAs/Profs, we have been there before





Final Words



- The competition will be extremely tough, especially in NUS SoC
- Try not to be discouraged if you fall, instead keep working towards small actionable goals





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QnA

Internship Experiences in:



(Current)



University Experiences in:



NUS Students' Computing Club
A Constituent Club of the NUS Students' Union



Developer Student Clubs
@ NUS School of Computing
National University of Singapore

Inter Faculty Games

Freshmen Orientation Camps

NUS Community Service Club

