

COMP5216 Assignment Project Exam Help

<https://eduassistpro.github.io/>

Week 01 - Introduct

Semester 2, 2020

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Dr. Kanchana Thilakarathna

School of Computer Science

Acknowledgement of Country

I would like to acknowledge the Traditional Owners of Australia and recognise their continuing connection to land, water and culture. I am currently on the land of the Gadigal people of the Eora Nation and pay my respects to their ancestors and to their
Assignment Project Exam Help present and emerging.

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I further acknowledge the Traditional Owners of the country on which you are on and pay respects to them, past, present and future.
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Welcome all to COMP5216...!

Kanchana Thilakarathna

Lecturer in Distributed Computing
School of Computer Science

Faculty of Engineering

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Rm 413, J12 | The University of Sydney | NS

E: kanchana.thilakarathna@sydney.edu.au

T: 02 8627 6535

W: <http://sydney.edu.au/engineering/people/kanchana.thilakarathna>

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Outline

- Online teaching in the time of COVID
- WHS
- Why this course ?
- Course Logistics
 - Lectures/Tutoria
 - Assessments
 - Expectation and Outcomes
- Mobile Ecosystem
- What is your “role” as students of COMP5216?
- Tutor introduction

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Keeping our community safe

We can all help reduce the spread of COVID-19 through following good hygiene practices:

- **Wash hands regularly**, for at least 20 seconds with soap and water, or use an **Assignment Project Exam Help**
- **Cover your mouth** <https://eduassistpro.github.io/> with a tissue or a flexed elbow.
- **Maintain a distance of at least 1 metre** between yourself and others, where possible.
- **Avoid large gatherings**, where possible.
- **Avoid close contact** with anyone **with cold or flu symptoms**, e.g. fever, cough, runny nose or shortness of breath.

Keeping our community safe

- All students and staff who have cold or flu symptoms should **isolate** themselves from others.
- If you are unwell with cold or flu symptoms **please excuse yourself from this class** and we will support you to continue the work remote
- Make sure you register <https://eduassistpro.github.io/> in the unit outline. Add WeChat `edu_assist_pro`

Keeping our community safe

- The University is following advice from the government and related public health authorities.
- For the latest information, see the [advice on the University website](#). **Assignment Project Exam Help**
- In some classes, se of shared equipment, plea <https://eduassistpro.github.io/> e from your coordinators. **Add WeChat edu_assist_pro**
- Please take care of each other a s and if you need support reach out to your unit coordinator or the health and wellbeing area of the [Current Students website](#).

Tips for better online lectures

- Remember that you are still in a space with other students.
- Mute your microphone when not speaking.
- Use earphones or headphones - the mic is better and you'll disturb others less.
- If you have a webcam, please switch it on so we can see you!
- If you are speaking, please contact with the teacher.
<https://eduassistpro.github.io/>
- Try not to talk over someone else.
[Add WeChat edu_assist_pro](#)
- Use the chat function to send messages to the teacher or classmates during class.

Tips for students learning online

- For tips and guides on learning online and the tools you will use, refer to [Learning while off campus resources](#) in Canvas.

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General Housekeeping – Use of Labs

- Keep work area clean and orderly
- Remove trip hazards around desk area
- No food and drink near machines
- No smoking permitted within University buildings
- Do not unplug or m

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EMERGENCIES – Be prepared



<https://sydney.edu.au/campus-life/safety-security.html>

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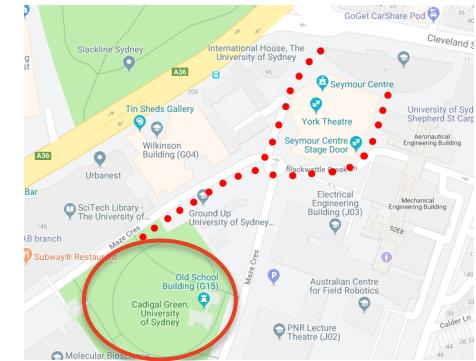
EMERGENCIES

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**Assembly Area:
Cadigal Green**



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Emergency procedures (on campus)

- In the unlikely event of an emergency we may need to evacuate the building.
- If we need to evacuate, we will ask you to take your belongings and follow the green exit signs.
- We will move a physical distance. <https://eduassistpro.github.io/> Iding and maintain emergency is over.
- In some circumstances we might remain inside the building for our own safety. We remain inside the lockdown or shelter-in-place.
- Further information is available at www.sydney.edu.au/emergency

MEDICAL EMERGENCY

- If a person is seriously ill/injured:
 1. call an ambulance 0-000
 2. notify the closest Nominated First Aid Officer
 - If unconscious— send for Automated External Defibrillator (AED)
 - AED locations:
 - NEAREST to CS
 - Electrical Engine
 - Seymour Centre, left of box office
 - Carried by all Security Patrol vehicles
 3. call Security - 9351-3333
 4. Facilitate the arrival of Ambulance Staff (via Security)



Nearest Medical Facility

University Health Service in Level 3, Wentworth Building

First Aid kit – SIT Building (J12)
kitchen area adjacent to Lab 110

School of Computer Science Safety Contacts

CHIEF WARDEN

Greg Ryan
Level 1W 103
9351 4360
0411 406 322



FIRST AID OFFICERS



Julia
Level 2E Reception
9351 3423



Will Calleja
Level 1W 103
9036 9706
0422 001 964



Katie Yang
Level 2E 237
9351 4918

**Orally REPORT all
INCIDENTS
& HAZARDS**

Assignment Project Exam SUPERVISOR

QR
<https://eduassistpro.github.io/>
to Katie Yang
51 4918

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Cours

Postgraduates: to Cecille Faraizi
9351 6060
or Keiko Narushima
8627 0872

CS School
Manager:

Priyanka Magotra
8627 4295

Assistance

- There are a wide range of support services available for students: <https://sydney.edu.au/campus-life/health-wellbeing-success.html> Assignment Project Exam Help
- Please make co <https://eduassistpro.github.io/>
- You are not required to tell any bout this Add WeChat edu_assist_pro
- If you are willing to inform the ator, they may be able to work with other support to reduce the impact on this unit
 - eg provide advice on which tasks are most significant

DISABILITY SERVICES

Do you have a disability?

- You may not think of yourself as having a 'disability' but the definition under the **Disability Discrimination Act** is broad and includes temporary or chronic medical conditions, physical or sensory disabilities, psychological conditions and learning disabilities.
 - The types of disabilities include anxiety, arthritis, asthma, asperger's disorder, ADHD, bipolar disorder, chronic fatigue syndrome, crohn's disease, cystic fibrosis, depression, diabetes, epilepsy, hearing impairment, learning disability, mobility impairment, multiple sclerosis, post traumatic stress, schizophrenia , vision impairment, and much more.
 - Students needing assistance must register with Disability Services –
 - it is advisable to do this as early as possible.
- <https://eduassistpro.github.io/>
- Add WeChat [edu_assist_pro](#)
- <http://sydney.edu.au/study/academic-support/disability-support.html>

Do you have a disability?

You may not think of yourself as having a ‘disability’ but the definition under the **Disability Discrimination Act**

(1992) is broad and includes temporary or chronic medical conditions, physical or sensory disabilities, psychological conditions and learning disabilities.

The types of disabilities we see include:

Anxiety // Arthritis // Asthma // Autism // ADHD

Bipolar disorder // Broken bones // Cancer

Cerebral palsy // Chronic fati

Crohn’s disease // Cystic fibro

Diabetes // Dyslexia // Epilepsy // H

Learning disability // Mobility impairment // Multiple

sclerosis // Post-traumatic stress // Schizophrenia //

Vision impairment

and much more.

Students needing assistance must register with Disability Services. It is advisable to do this as early as possible. Please contact us or review our website to find out more.



THE UNIVERSITY OF
SYDNEY

Disability Services Office
sydney.edu.au/disability
02-8627-8422

Other support

- Learning support
 - <http://sydney.edu.au/study/academic-support/learning-support.html>
- International students **Assignment Project Exam Help**
 - <http://sydney.edu.au/study/academic-support/support-for-international-students.html>
- Aboriginal and Torre <https://eduassistpro.github.io/>
 - <http://sydney.edu.au/d-torres-strait-islander-support.html>
- Student organization (can represent yo **Add WeChat edu_assist_pro** appeals etc)
 - <http://srcusyd.net.au/> or <http://www.supra.net.au/>
- Please make contact, and get help
- You are not required to tell anyone else about this
- If you are willing to inform the unit coordinator, they may be able to work with other support to reduce the impact on this unit
 - eg provide advice on which tasks are most significant

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Got an “App” for everything...

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Mobiles are everywhere ... !

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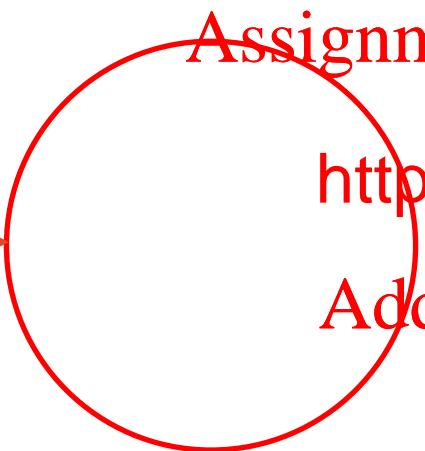
Mobiles are everywhere ... !

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Revolution of mobile devices

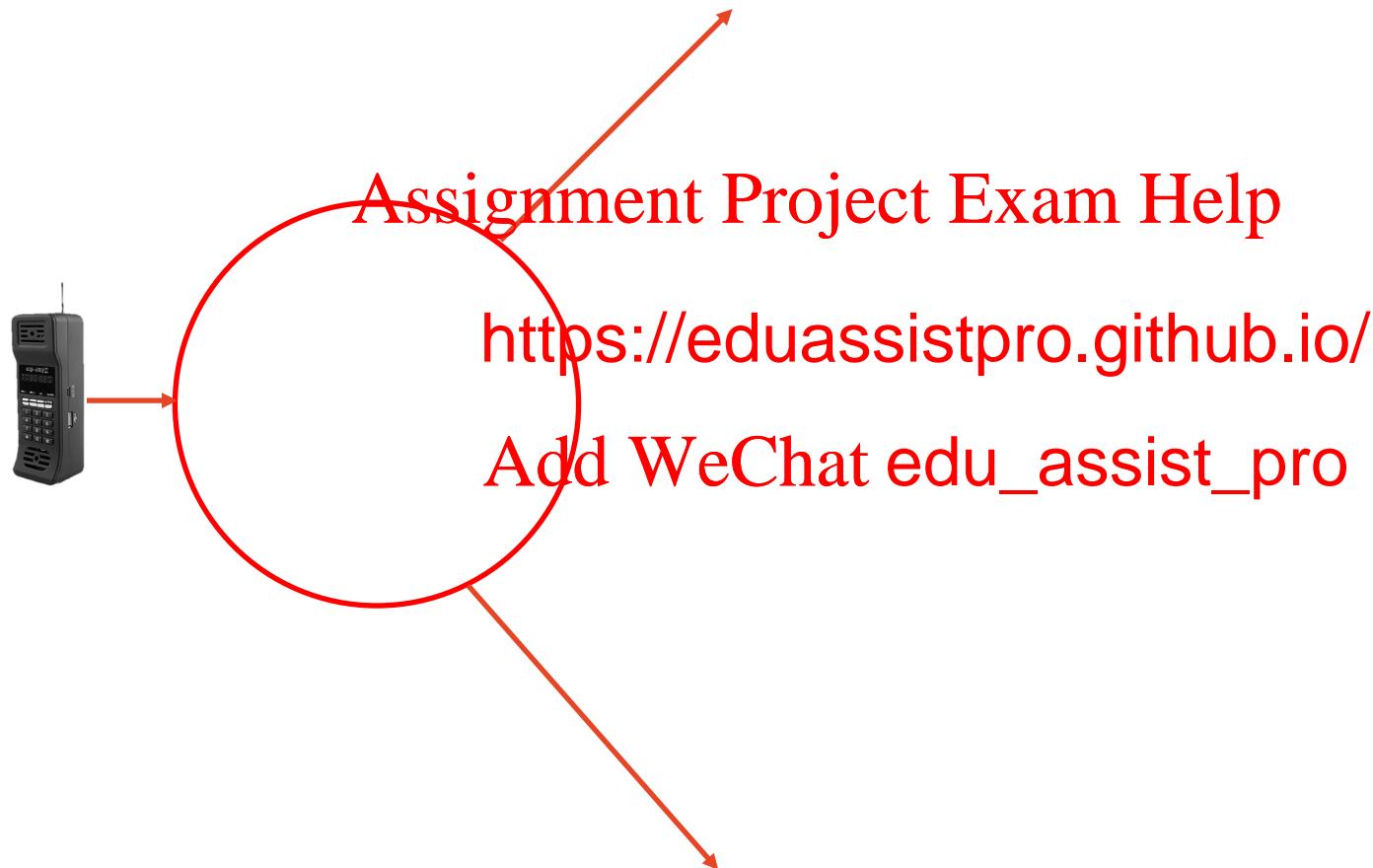


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Revolution of mobile devices



Ever increasing capabilities of mobiles

- **Variety**
 - Multiple screen sizes, from \$xx - \$xxxx,
- **Multiple input modalities**
 - Type, touch, swipe, speech, gestures
- **Connectivity**
 - Cellular (4G), <https://eduassistpro.github.io>
- **Sensors**
 - Accelerometer, GPS, temperature,
- **Camera**
 - Ultra-HD video, HDR, depth sensing,...
- **Computing power**



Ever growing mobile market... !

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Impact of Mobile Computing

- **Commerce and Business**
 - Amazon, eBay, Taobao, ...
- **Networking (Social)**
 - Facebook, Twitter, WhatsApp, WeChat, ...
- **Education**
 - Anytime, anywhere <https://eduassistpro.github.io/>
- **Entertainment**
 - Game, video, mixed reality, ...
- **Tourism**
 - Augmented reality, Maps, ...
- **Health**
 - Fitbit, Apple health kit, Google Fit, ...

Impact of Mobile Computing

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Employment Impact of mobile ecosystem

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COMP5216 – Course Description

“Mobile computing is becoming a **mainstream** for many IT applications, due to the availability of more and more powerful and affordable mobile devices with rich sensors such as cameras and GPS, which have already significantly changed many aspects in business, education, social network, health care, and entertainment in **Assignment Project Exam Help** **https://eduassistpro.github.io/** **s been critical to** **ch new computing** **platform and necessary skills.** The **Add WeChat edu_assist_pro** **provide an in-depth** **overview of existing and emerging** **uting techniques** **and applications,** the **eco-system** of the mobile computing platforms, and its key building components. The unit will also train students with hand-on experiences in developing mobile applications in a broad range of areas.”

Course Logistics

- Course Website
 - Canvas: <https://canvas.sydney.edu.au/courses/25953>
- Lectures
 - Week 01 – 12: Mondays 5:00pm to 7:00pm
 - Online via Zoo
 - Recorded lectures <https://eduassistpro.github.io/>
- Labs/Tutorials
 - M19A , M19B, M19C - Mondays 7:00pm to 8:00pm
 - T17A, T17B, T17C - Tuesdays 5:00pm to 6:00pm
 - Refer to your timetable for the allocated tutorial room
 - Android app development with Android Studio
 - Encouraged to experiment with an Android smartphone (if available)

COMP5216 - Schedule

Week	Lectures	Labs/Tutorials
1	Introduction	Android basics
2	Mobile App Development 1 – Basics	Handling Interactions
3	Mobile App Development 2 - Capabilities	Local data storage
4	Mobile App Development 3 Challenges	Cloud service
5	Mobile Network	access
6	Mobile Security	R
7	Mobile Cloud & Energy	nagement
8	Mobile Innovation: Beyond Smartphones	sensors
9	Mobile Innovation: Industry Guest Lecture	Location access
10	Cross-platform App Development	App analytics and publishing
11	Demo Day	
12	Course Review	Exam Review

Schedule
may
Change

Assessment - Assignments

- **Two Assignments** along with the labs/tutorials

Task	Release	Due	Marks
Assignment 1	Week 2	Week 4	5%
Assignment 2	Week 5	Week 8	5%

<https://eduassistpro.github.io/>

- Each assignment contains app development exercises
- You need to demonstrate the working app on the due date during the tutoring class

Assessment – Group Project

- Build a Mobile App
- Group size is 5 (I will confirm the group size on Week 2)
- Project guidelines will be released on Week 2

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Task	Release	Due	Marks
Proposal	https://eduassistpro.github.io/	Week 6	10%
Final (Report, Video, Demo, Presentation)		Week 11	30%

- Groups will be created and link Add WeChat [edu_assist_pro](#) classes in Canvas.
 - Try to join to a group linked to your tutorial.
 - Change of tutorial class will be approved if there is enough space.
- **Try to solve a real-world problem that you have**
- Two project help-desk sessions during the semester
- Start thinking now !

Assessment – Final Exam

- **Online final exam**
- Exam type: Take-home short release
- Exams are set up on exam-specific Canvas site
- Exams are taken synchronously during the formal exam period

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Task	https://eduassistpro.github.io/	ks
Project		
Assignments (2)	Add WeChat edu_assist_pro	Week 4-8
Final Exam	Formal Exam Period	50%

- To **Pass** this course, you must
 - Score at **least 50% overall**, and
 - Score at **least 40% in the final exam**

Special Consideration

- In case of **Illness or Misadventure**
 - You can apply for special consideration
- The first thing you do should be
 - **Let the coordinator know** (best by email and while still sick)
 - **Submit your as**
- Follow proper b <https://eduassistpro.github.io/>
 - Have professional practitioner sign **Add WeChat edu_assist_pro**, upload scans
 - Submit application for special consideratorm
 - Note you have only a quite short deadline for applying
- No special consideration for missing out a few days or being on holiday etc.
 - Take the responsibility of your time management
- University Policy:
http://sydney.edu.au/current_students/special_consideration/index.shtml

Assessment - Late submission policy

- Suppose you hand in work after the deadline:
- If you have not been granted special consideration or arrangements
 - A penalty of 5% of the maximum marks will be taken per day (or part) late.
 - After ten days, f zero.
 - e.g. If an assignment is worth 40% and you are one hour late submitting, then the maximum marks would be 38%.
 - e.g. If an assignment is worth 40% and you are 28 hours late submitting, then the maximum marks would be 36%.
- Warning: submission sites get very slow near deadlines
- Submit early; you can resubmit if there is time before the deadline

Academic Dishonesty & Plagiarism

- Academic Integrity
 - Plagiarism: NO
 - Outsourcing: NO
 - See more details on the course website in Assessment section
- “The University of Sydney is unequivocally opposed to, and intolerant of, plagiarism and academic dishonesty. Plagiarism is defined as ‘the presentation of work as one’s own work without appropriate acknowledgement of the source.’ [from site below]”
- Submitted work is compared against other work (from students, the internet, etc)
 - Turnitin for textual tasks (through Canvas), other systems for code
- Penalties for academic dishonesty or plagiarism can be severe
- University Policy: <http://sydney.edu.au/elearning/student/EI/index.shtml>

Different levels/types of Academic Integrity practice

- Source:
 - Different types of **sources of help** are accepted for **different academic levels** (Junior, Intermediate, Senior, Postgraduate)
- Nature of Help:
 - Different types [Assignment Project Exam Help](https://eduassistpro.github.io/) ent types of assessment.
- Two slides explaining “Source” Add WeChat edu_assist_pro of help allowed
- You can adjust the chart to suite the academic integrity requirement for your assessments.

Example 2: Intermediate/Senior level specialist UoS

Source of Help

Lecturer	Teaching Assistants / Tutors	Classmates	Private Tutors	Online forums/ Online	Students outside course/UoS	Hired coders Tutorial Company outside University	Relatives	Other
		Assignment Project Exam Help						

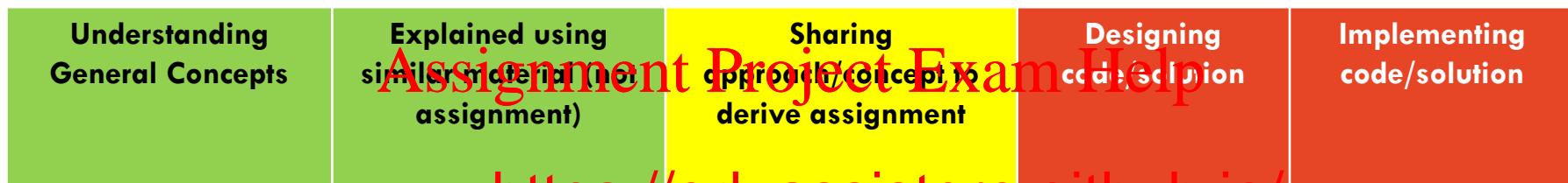
<https://eduassistpro.github.io/>

- Individual assessment
- A student needs to gain an understanding knowledge/skills
- A student needs to gain skills to find, eval existing knowledge/solutions

- Add WeChat [edu_assist_pro](#)
- Encouraged
 - Attribution required
 - Not acceptable
 - Ask Lecturer/Coordinator

Example 2: Intermediate/Senior level specialist UoS

Types of Help



<https://eduassistpro.github.io/>

- Individual assessment
- A student needs to gain an understanding of knowledge/skills
- It is important to master the knowledge/skills
- Students are encouraged to obtain help through relevant teaching material and practices

- Encouraged
- Attribution required
- Not acceptable
- Ask Lecturer/Coordinator

Expectations

- COMP5216 is not a programming course.
- Pre-requisites
 - Knowledge in a high level programming language
 - Android programming is based on JAVA
 - Many books in the university library
 - External res
 - <https://eduassistpro.github.io/-programming/id548675644>
 - <https://www.udemy.com/java-tutorial/>
 - <https://itunes.apple.com/us/course>

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<https://eduassistpro.github.io/>

[-programming/id548675644](https://eduassistpro.github.io/-programming/id548675644)

<https://www.udemy.com/java-tutorial/>

<https://itunes.apple.com/us/course>

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[a/id51000192](https://eduassistpro.github.io/id51000192)

- To understand **Concepts and Principles**
- To be skillful in **Programming**
- To practice **Problem Solving**
- To be **Creative**

Outcomes

- Pursue your passion
- Exercise your creativity
- Gain rewarding experiences
- Understand mobile computing techniques
- Thorough knowl <https://eduassistpro.github.io/> eco-system

At the end of the course; Add WeChat edu_assist_pro

- You will be able to develop your own mobile app
- May be you will be able to publish it in the app store
- May be you will be able to start your own business
- Participate and win an App Competition

Mobile Ecosystem

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COMP5216

Week 01 - Introduction

Semester 2, 2020

Mobile Ecosystem

- Number stakeholders interact as a system to provide or consume hardware and software related to smartphones, each having different benefits (financial or non-financial).

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- Example stakeholders
 - Manufacturers <https://eduassistpro.github.io/>
 - Distributors
 - Infrastructure providers
 - Advertisers
 - Users

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Hardware Manufacturers

- Hardware:
 - Google, Apple, Samsung, Nokia, Huawei, HTC, ...

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- Smartphone unit sales - <https://www.statista.com>

Platforms/OS Vendors

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Smartphone platforms

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App Markets

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<https://www.statista.com>

Smartphone apps

- **Free:** Users can download and use these apps without any direct cost. However, most of the time these apps contain in-app advertisements.

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- **Paid:** In the case of assignment help apps, users are required to make a payment before using them. Subscription based apps involve a recurring payment for continuous access to the services offered.
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- **Freemium:** These apps are offered for free as well. However, a user only has access to a limited set of features or levels of the app, and the rest is locked.

Third Party API/SDKs Providers

- Advertising (Provides In-App advertisements)



- Analytics (Collect data from users for analytics)

<https://eduassistpro.github.io/>

- Bug Tracking (Assists developers in tracking bugs)



- Payments (Provides capabilities to support in-app purchases)



Network Operators

- Provides the “pipe” to all the applications
- Capacity crunch (Access network and Backhaul bottlenecks)
- Slightly left out of the food-chain
- Inefficient app designs cause network overloads

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Vodafone revenue down to AU\$3.4b on ACCC decision

Vodafone Australia reported a net loss of AU\$2418 million on revenue of AU\$3.35 billion thanks to the AU\$470 million impact of the regulator's decision to cut the rates for mobile termination.



By Corinne Reichert | February 23, 2017 -- 05:38 GMT (16:38 AEDT) | Topic: Telcos

Regulators

- Government Regulations
 - Australian Consumer Rights
 - <https://www.accc.gov.au/consumers/consumer-rights-guarantees>
 - EU General Data Protection Regulation (GDPR)
<https://www.eduassistpro.github.io/>
 - NIST – National Institute of Standards and Technology
 - <https://www.nist.gov/>
- Industry standards
 - ISO standards, IEEE standards
- Human ethics
 - USYD Research Ethics and Integrity
 - <https://intranet.sydney.edu.au/research-support/ethics-integrity/human-ethics.html>

What is our “Role” ?



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What is our “Role” ?

As students of COMP5216

Role: Uncovering the true potential of mobile devices

→ **Mobile Computing (App developers)**

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Challenges
rsonal data
<https://eduassistpro.github.io/>
management, sharing
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– Ration
, network, power,
storage
– User interaction
– Voice, text, touch, gestures

- Your work will impact all stakeholders on the chain.

Background

- Does computer programming limited to Computer Science students ?

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Background does not matter

- Does computer programming limited to Computer Science students ?
- **Mobile Computing is becoming a commodity**
Assignment Project Exam Help
- Mobile computin
<https://eduassistpro.github.io/>
- Knowledge and experience in mobile computing will be useful;
 - For your final year thesis project
 - To improve your productivity
 - Pursue your passion as a hobby
 - Just for Fun !
 - **Improve your chances of getting a better job**

Get Help...!

- Consultation
 - 4:00pm on Mondays, or by appointment
- Know your Tutors! Assignment Project Exam Help
 - Teaching Assistant: Iwan Budiman - iwanbud@gmail.com
 - Tutors:
 - M19A, T17A - <https://eduassistpro.github.io/> f@gmail.com
 - M19B, T17B- Chamara Kattadige c sydney.edu.au
 - M19C, T17C - Kshitiz Bhargava kb ydney.edu.au
- Separate Ed discussion forums for each tutorial
 - Get help for tutorial/programming matters from tutors
- Two project help-desk sessions during the semester

What's Next ?

- Labs/Tutorials starts at Monday 7:00pm and Tuesday 5:00pm
- Tutorial 1 – Android Basics
 - Programming environment setup
 - “Hello World” Android app
- Metacognition Assignment Project Exam Help
 - Pay attention to th
 - Self-check that you
 - Think how each ass

<https://eduassistpro.github.io/>
- Time management
 - Watch the due dates
 - Start work early, submit early
- Networking and community-formation
 - Make friends and discuss ideas with them
 - Know your tutor, lecturer, coordinator
 - Keep them informed, especially if you fall behind
 - Don't wait to get help !
- Enjoy the learning!