

# Assignment 2

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March 19, 2021

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## 1 Task 1

Find requirements of bachelor thesis. Write a LATEX document explaining your findings. Document your sources.

Da besvarelsen skal være brugbar for os som studerende, har vi valgt at tage udgangspunkt i CPH Business krav til vores kommende bachelor projekt. [softwebsite]

## Krav til Rapporten

- Da en bachelor svarer til 15 ECTS points, forventes det at den studerende bruger 412,5 time på bachelor projektet.

$$15 * 27,4timer = 412,5timer$$

- Det maksimale antal sider afhænger af gruppens størrelse og udregnes således:  $maksantalsider = 40 + 20 * antalstuderende$
- Hvis rapporten er under 2/3 af det maksimale antal sider, anses den for at være kort. Der er dog ikke et officelt minimumskrav.
- Rapporten skal skrives på enten dansk eller engelsk.
- Rapporten skal indeholde en gennemgående beskrivelse af det udarbejdede projekt, samt evaluering og refleksion over dette.

## Rapportens indhold

1. Forside (titel, studerendes navne og id, skole og vejleder)
2. Abstract (ca. 4 linjer og skrives til aller sidst)
3. Indholdsfortegnelse
4. Introduktion
  - Motivation
  - Forventede resultat
  - Opgaver for at kunne opnå det forventede resultat
  - Scope
  - Kort beskrivelse af hvert afsnit efterfølgende
5. Undersøgelse og redegørelse af teknologier og teori
6. Krav specifikationer og design
7. Implementation og udvikling
8. Konklusion
9. Littearturliste og bilag
10. Præsentation (eventuelt powerpoint)

### 1.1 Sources

## 2 Task 2

Produce a template (in LATEX, of course) that you can use in your bachelor thesis. It should be rich with examples of the following (ie. one of each):

## 2.1 Danish Letters

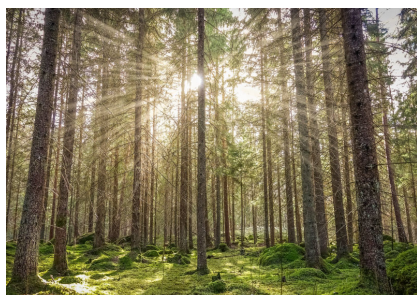
æ ø å

## 2.2 Graphics

Figure 1: Caption above image



Figure 2: Caption under image



(a) This is a forest



(b) This is a mountain

Figure 3: This is nature at it's finest

## 2.3 References

### To images

Figure 3b is an image of a mountain.

### To page containing the image

An images of a waterfall can be found at page 4

### 2.3.1 Paragraphs

**Paragraph** This is the first paragraph. This is the first paragraph. This is the first paragraph. This is the first paragraph.

**Subparagraph** This is the second paragraph.

## 2.4 Lists

### 2.4.1 Bullet points

- Bullet one
- Bullet two

### 2.4.2 Alternativ Bullet

- ✓ Check one
- ✓ Check two

### 2.4.3 Enumerated list

1. This is another list
  - (a) One
  - (b) Two
2. And another one
  - (a) Three
  - (b) Four

## 2.5 Tables

### 2.5.1 Table with horizontal alignments in columns

### 2.5.2 Table with a cell spanning multiple columns

### 2.5.3 Reference

Table 1 is on page 6

One	Two	Three
Four	Five	Six
Seven	Eight	Nine

Table 1: Horizontal alignments left, right and centered

Persons		
Name	Gender	Age
Buller	Male	3
Buffy	Female	16
Bay	Male	9

Table 2: Cell spanning multiple columns

## 2.6 Code listing - emphasized key words

*Java* was originally developed by James Gosling at *Sun Microsystems* (which has since been acquired by *Oracle*) and released in **1995** as a core component of Sun Microsystems' Java platform.

## 2.7 Math equations

### 2.7.1 Inline equations (in text) and equations on separate line

Depending on the value of  $x$  the equation  $f(x) = \sum_{i=0}^n \frac{a_i}{1+x}$  may diverge or converge.

$$f(x) = \sum_{i=0}^n \frac{a_i}{1+x}$$

### 2.7.2 Fractions, summations, products, roots, powers

Fraction:

$$\frac{1}{4}$$

Summation:

$$\sum_{i=1}^n i^2 = \frac{n(n+1)(2n+1)}{6}$$

Products:

$$\prod_{i=1}^n x = x^n$$

Roots:

$$\sqrt{14}$$

Powers:

$$x^n$$

## 2.8 Todo notes

This a note

This another  
note

## 2.9 Bibliography of book, article and internet link

An article: `[Clear]` A book: `[latexcompanion]` A website: `[knuthwebsite]`