

Sprint 3

MINF UDL 20-21

TI Project Management

Team ProxyPrizes

Financial factors

Content:

- 1. Cashflow (4 years) and What-if analysis
- 2. Flowchart and monetization strategy
- 3. Structure of income
- 4. Structure of costs
- 5. Payback, NPV, ROI, Break-even

INNVIERTE program reference:

https://www.investinspain.org/invest/es/canal-de-informacion/servicios-de-acceso-a-informacion/buscador-de-ayudas-e-incentivos/index.html?plantilla=detalles resumen.php&codConvocatoria=394&lang=es&visita=1

I. Cashflow (4 years) and What-if analysis:

https://udlcat-my.sharepoint.com/:x:/r/personal/dls5_alumnes_udl_cat/_layouts/15/doc2.aspx?sour_cedoc=%7Bec14aa05-f822-44cb-bda3-8cfadf771bcd%7D&action=edit&activeCell=%27Planilha1%27!N21&wdrcid=5fbe3ecc-e4a0-4bd7-8e97-a61f70e7a74c&wdrldc=1

Observation: In case we don't get the initial investment, in the what-if scenario (pessimistic) represents the taxes and fees for a loan made through a bank with a payment time of 3 years.

Observation 2: Following the feedback that we needed a way to deal with the negative cashflow, we have include a Crowd Funding project, in which we accomplished to gather **60,000 Euros**. We have made research about some crowd funding platforms like Kickstarter, Indiegogo, etc and decided that our project fits the target amount expectation successfully.









Get closer to your local shops

ProxyPrizes will be your go-to application when the matter is local shopping.
Discover, post and share! You and other users will be part of a local community to



How it works

- · Discover new products of local shops
- · Share you opinions about products
- · Earn exclusive discounts
- · Participate in sales and events
- · Encourage your local shops



Explore your surroundings

All participating shops in your city will be acessible easily within the app



Scroll through recommendations and products

In your main timeline you will see the content best related to you and your local community, you can even filter through the items!



Avaliable everywhere!

Android or iPhone? Don't worry, our application will work in both systems!

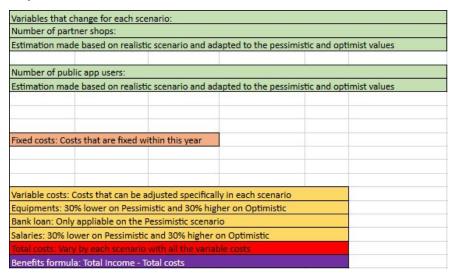
Contribute with:

- · 10 euros: Our most humble thank you!
- · 20 euros: Special thanks and + 2 exclusive discounts
- · 30 euros: 5 exclusive discounts + access to early limited sales
- · 50+ euros: All previous rewards + a Special surprise

Observation 3: Following the feedback that we decided to re-invest our cashflow in year 4 at the local small shops itself, through an helping entity funded by our company (ProxyPrizes), further details will be provided

94 (1440)								Ye	ears							
Project ProxyPrizes			1			2				3					4	
	Q1	Q2	Q3	Q4	QI	Q2	Q3	Q4	QI	Q2	Q3	Q4	QI	Q2	Q3	Q4
INNVIERTE program (Spain government help)	€ 40,000.0	00														111
11.1			1													T.
Crowdfunding project	€ 60,000.0	00			7											
Num of Shops subscribed					50	70	90	100	500	900	1800	3000	3500	4800	5500	6500
Shop Subscription (C75 per quarter)					€ 3,750.00	€ 5,250.00	€ 6,750.00 €	7,500.00	€ 37,500.00	€ 67,500.00	£ 135,000.00	€ 225,000.00	€ 262,500.00	€ 360,000.00	€ 412,500.00 €	487,500.00
Num of Users registered					70	150	300	500	1000	2000	6000	11000	20000	35000	45000	65000
Single user's quarter sales (€90)					€ 90.00	€ 90.00	€ 90.00 €	90.00	€ 90.00	€ 90.00	€ 90.00	€ 90.00	€ 90.00	€ 90.00	€ 90.00 €	90.00
Comission on Shop Sales (5%)					€ 315.00	€ 675.00	€ 1,350.00 €	2,250.00	€ 4,500.00	€ 9,000.00	€ 27,000.00	€ 49,500.00	€ 90,000.00	€ 157,500.00	€ 202,500.00 €	292,500.00
Total Income	€ 100,000.0	0 € -	ε -	€ -	€ 4,065.00	€ 5,925.00	€ 8,100.00 €	9,750.00	€ 42,000.00	€ 76,500.00	€ 162,000.00	€ 274,500.00	€ 352,500.00	€ 517,500.00	€ 615,000.00 €	780,000.00
Open the company (S.L)	€ 3,600.0	10														
Advertising					€ 3,000.00	€ 3,000.00	€ 3,000.00 €	3,000.00	€ 5,000.00	€ 5,000.00	6,000.00	6,000.00	€ 10,000.00	€ 10,000.00	€ 10,000.00 €	10,000.00
Scrum Master salary (€35,000/year)					€ 4,375.00	€ 4,375.00	€ 4,375.00 €	4,375.00	€ 8,750.00	€ 8,750.00	8,750.00	€ 8,750.00	€ 8,750.00	€ 8,750.00	€ 8,750.00 €	8,750.00
Front-end developer salary (€26,000/year)					€ 3,250.00	€ 3,250.00	€ 3,250.00 €	3,250.00	€ 6,500.00	€ 6,500.00	6,500.00	6,500.00	€ 6,500.00	€ 6,500.00	€ 6,500.00 €	6,500.00
Back-end developer salary (£30,000/year)					€ 3,750.00	€ 3,750.00	€ 3,750.00 €	3,750.00	€ 7,500.00	€ 7,500.00	7,500.00	€ 7,500.00	€ 7,500.00	€ 7,500.00	€ 7,500.00 €	7,500.00
Full Stack developer salary (€30,000/year)					€ 3,750.00	€ 3,750.00	€ 3,750.00 €	3,750.00	€ 7,500.00	€ 7,500.00	7,500.00	€ 7,500.00	€ 7,500.00	€ 7,500.00	€ 7,500.00 €	7,500.00
Sales Manager (€45,000/year)									€ 11,250.00	€ 11,250.00	11,250.00	€ 11,250.00	€ 22,500.00	€ 22,500.00	€ 22,500.00 €	22,500.00
API Services	€ 125.0	10 € 125.00	€ 125.00	€ 125.00	€ 125.00	€ 125.00	€ 125.00 €	125.00	€ 125.00	€ 125.00	€ 125.00	€ 125.00	€ 125.00	€ 125.00	€ 125.00 €	125.00
Equipments	€ 5,000.0	10			€ 10,000.00			3)	€ 15,000.00				€ 20,000.00	5		
Web Server + load balancer	€ 2,360.0	10			€ 2,520.00				€ 3,480.00				€ 5,640.00			
Database Server	€ 2,000	00			€ 2,000.00				€ 3,000.00				€ 5,000.00	3		- 1
Total Costs	€ 13,085.0	00 € 125.00	€ 125.00	€ 125.00	€ 32,770.00	€ 18,250.00	€ 18,250.00 €	18,250.00	€ 68,105.00	€ 46,625.00	€ 47,625.00	€ 47,625.00	€ 93,515.00	€ 62,875.00	€ 62,875.00 €	62,875.00
Cashflow	€ 86,915.0		€ 86,665.00	€ 86,540.00	€ 57,835.00	€ 45,510.00	€ 35,360.00 €	26,860.00	€ 755.00	€ 30,630.00	€ 145,005.00	€ 371,880.00	€ 630,865.00	€ 1,085,490.00	€ 1,637,615.00 €	2,354,740.00

What if analysis



- Year 2

	H.								٧	/hat-if analysis	yea	ar 2												
												Sce	enar	ios										
Data	Pessimistic						Realistic								Optimistic									
		Q1		Q2		Q3		Q4		Q1		Q2		Q3		Q4		Q1		Q2		Q3		Q4
Partner shops		10		20		30		50		50		70		90		100		50		100		150		300
Quarter subscription fees		€ 75.00		€ 75.00		€ 75.00		€ 75.00		€ 75.00		€ 75.00		€ 75.00		€ 75.00		€ 75.00		€ 75.00		€ 75.00		€ 75.00
Total subscription fees(€)	€	750.00	€	1,500.00	€	2,250.00	€	3,750.00	€	3,750.00	€	5,250.00	€	6,750.00	€	7,500.00	€	3,750.00	€	7,500.00	€	11,250.00	€	22,500.00
Public app users		30		100		190		250		70		150		300		500		200		500		700		900
Single user's quarter sales (€)	€	75.00	€	75.00	€	75.00	€	75.00	€	90.00	€	90.00	€	90.00	€	90.00	€	150.00	€	150.00	€	150.00	€	150.00
Total sales (€)	€	2,250.00	€	7,500.00	€	14,250.00	€	18,750.00	€	6,300.00	€	13,500.00	€	27,000.00	€	45,000.00	€	30,000.00	€	75,000.00	€ :	105,000.00	€	135,000.00
Commission rate (5%)	€	112.50	€	375.00	€	712.50	€	937.50	€	315.00	€	675.00	€	1,350.00	€	2,250.00	€	1,500.00	€	3,750.00	€	5,250.00	€	6,750.00
Total income	€	862.50	€	1,875.00	€	2,962.50	€	4,687.50	€	4,065.00	€	5,925.00	€	8,100.00	€	9,750.00	€	5,250.00	€	11,250.00	€	16,500.00	€	29,250.00
										Fixed cost	s													
Advertising	€	3,000.00	€	3,000.00	€	3,000.00	€	3,000.00	€	3,000.00	€	3,000.00	€	3,000.00	€	3,000.00	€	3,000.00	€	3,000.00	€	3,000.00	€	3,000.00
Servers (Web + Database)	€	1,000.00	€	1,000.00	€	1,000.00	€	1,000.00	€	1,000.00	€	1,000.00	€	1,000.00	€	1,000.00	€	1,000.00	€	1,000.00	€	1,000.00	€	1,000.00
API Services	€	125.00	€	125.00	€	125.00	€	125.00	€	125.00	€	125.00	€	125.00	€	125.00	€	125.00	€	125.00	€	125.00	€	125.00
										Variable cos	sts													
Equipments	€	1,250.00	€	1,250.00	€	1,250.00	€	1,250.00	€	2,500.00	€	2,500.00	€	2,500.00	€	2,500.00	€	3,200.00	€	3,200.00	€	3,200.00	€	3,200.00
Bank loan (40k) + Opening tax	€	5,874.26	€	4,954.26	€	4,954.26	€	4,954.26																
Salaries	€	1,268.75	€	1,268.75	€	1,268.75	€	1,268.75	€	18,125.00	€	18,125.00	€	18,125.00	€	18,125.00	€	20,000.00	€	20,000.00	€	20,000.00	€	20,000.00
Total costs	€ :	12,518.01	€		€	11,598.01	€		€	24,750.00	€	24,750.00	€	24,750.00	€	24,750.00	€	27,325.00	€	27,325.00	€		€	27,325.00
Benefits (per quarter)	€ (1	1,655.51)	€	(9,723.01)	€	(8,635.51)	€	(6,910.51)	€	(20,685.00)	€	(18,825.00)	€	(16,650.00)	€	(15,000.00)	€ (22,075.00)	€	(16,075.00)	€	(10,825.00)	€	1,925.00

- Explanations:
 - In case of pessimistic scenario we are paying the Bank loan + taxes;

- In case of pessimistic scenario we are spending less on equipments;
- In case of pessimistic scenario our salaries are cut (just the fullstack developer is working half-time);
- In case of realistic scenario all variables are the same as in the cashflow;
- In case of Optimistic scenario, we are spending more on equipment, and on salaries (our salaries fulltime + fullstack fulltime);

Year 3

	What-if analysis year 3																							
												Sce	nar	ios										
Data	Pessimistic						Realistic							Optimistic										
		Q1		Q2		Q3		Q4		Q1		Q2		Q3		Q4		Q1		Q2		Q3		Q4
Partner shops		400		600		1200		2000		500		900		1800		3000		700		1200		2500		3000
Quarter subscription fees		€ 75.00		€ 75.00		€ 75.00		€ 75.00		€ 75.00		€ 75.00		€ 75.00		€ 75.00		€ 75.00		€ 75.00		€ 75.00		€ 75.00
Total subscription fees(€)	€	30,000.00	€	45,000.00	€	90,000.00	€	150,000.00	€	37,500.00	€	67,500.00	€	135,000.00	€	225,000.00	€	52,500.00	€	90,000.00	€	187,500.00	€	225,000.00
Public app users		600		1200		4000		7000		1000		2000		6000		11000		1000		2200		6000		12000
Single user's quarter sales (€)	€	75.00	€	75.00	€	75.00	€	75.00	€	90.00	€	90.00	€	90.00	€	90.00	€	150.00	€	150.00	€	150.00	€	150.00
Total sales (€)	€	45,000.00	€	90,000.00	€	300,000.00	€	525,000.00	€	90,000.00	€	180,000.00	€	540,000.00	€	990,000.00	€	150,000.00	€	330,000.00	€	900,000.00	€ 1	1,800,000.00
Commission rate (5%)	€	2,250.00	€	4,500.00	€	15,000.00	€	26,250.00	€	4,500.00	€	9,000.00	€	27,000.00	€	49,500.00	€	7,500.00	€	16,500.00	€	45,000.00	€	90,000.00
Total income	€	32,250.00	€	49,500.00	€	105,000.00	€	176,250.00	€	42,000.00	€	76,500.00	€	162,000.00	€	274,500.00	€	60,000.00	€	106,500.00	€	232,500.00	€	315,000.00
										Fixed cost	5												e.	
Advertising	€	5,500.00	€	5,500.00	€	5,500.00	€	5,500.00	€	5,500.00	€	5,500.00	€	5,500.00	€	5,500.00	€	5,500.00	€	5,500.00	€	5,500.00	€	5,500.00
Servers (Web + Database)	€	1,500.00	€	1,500.00	€	1,500.00	€	1,500.00	€	1,500.00	€	1,500.00	€	1,500.00	€	1,500.00	€	1,500.00	€	1,500.00	€	1,500.00	€	1,500.00
API Services	€	125.00	€	125.00	€	125.00	€	125.00	€	125.00	€	125.00	€	125.00	€	125.00	€	125.00	€	125.00	€	125.00	€	125.00
										Variable co	sts													
Equipments	€	2,500.00	€	2,500.00	€	2,500.00	€	2,500.00	€	3,750.00	€	3,750.00	€	3,750.00	€	3,750.00	€	4,500.00	€	4,500.00	€	4,500.00	€	4,500.00
Bank loan (40k)	€	4,954.26	€	4,954.26	€	4,954.26	€	4,954.26				2777				A 1111								222000000
Salaries	€	30,250.00	€	30,250.00	€	30,250.00	€	30,250.00	€	41,500.00	€	41,500.00	€	41,500.00	€	41,500.00	€	41,500.00	€	41,500.00	€	41,500.00	€	41,500.00
Total costs	€	44,829.26	€	44,829.26	€	44,829.26	€	44,829.26	€		€		€	52,375.00	€		€	53,125.00	€	53,125.00	€	53,125.00	€	53,125.00
Benefits (per quarter)	€	(12,579.26)	€	4,670.74	€	60,170.74	€	131,420.74	€	(10,375.00)	€	24,125.00	€	109,625.00	€	222,125.00	€	6,875.00	€	53,375.00	€	179,375.00	€	261,875.00

Explanations:

- In case of pessimistic scenario we are paying the Bank loan + taxes;
- In case of pessimistic scenario we are spending less on equipments;
- In case of pessimistic scenario we are spending less on Salaries (just 3 of us + full stack);
- In case of realistic scenario all variables are the same as in the cashflow;
- In the optimistic scenario and realistic, we are spending a little more on salaries (3 of us + fullstack + sales manager, everyone fulltime)

- Year 4

									٧	What-if analysis	yea	ar 4												
												Sce	nar	ios										
Data	Pessimistic							Realistic							Optimistic									
		Q1		Q2		Q3		Q4		Q1		Q2		Q3		Q4		Q1		Q2		Q3		Q4
Partner shops		2200		3800		4000		4500		3500		4800		5500		6500		4000		5000		7000		9000
Quarter subscription fees		€ 75.00		€ 75.00		€ 75.00		€ 75.00		€ 75.00		€ 75.00		€ 75.00		€ 75.00		€ 75.00		€ 75.00		€ 75.00		€ 75.00
Total subscription fees(€)	€	165,000.00	€	285,000.00	€	300,000.00	€	337,500.00	€	262,500.00	€	360,000.00	€	412,500.00	€	487,500.00	€	300,000.00	€	375,000.00	€	525,000.00	€	675,000.00
Public app users		10000		25000		35000		50000		20000		35000		45000		65000		25000		35000		39000		50000
Single user's quarter sales (€)	€	75.00	€	75.00	€	75.00	€	75.00	€	90.00	€	90.00	€	90.00	€	90.00	€	150.00	€	150.00	€	150.00	€	150.00
Total sales (€)	€	750,000.00	€1	1,875,000.00	€ 2	2,625,000.00	€3	3,750,000.00	€	1,800,000.00	€3	3,150,000.00	€ 4	1,050,000.00	€ :	5,850,000.00	€ 3	,750,000.00	€	5,250,000.00	€5	,850,000.00	€	7,500,000.00
Commision rate (5%)	€	37,500.00	€	93,750.00	€	131,250.00	€	187,500.00	€	90,000.00	€	157,500.00	€	202,500.00	€	292,500.00	€	187,500.00	€	262,500.00	€	292,500.00	€	375,000.00
Total income	€	202,500.00	€	378,750.00	€	431,250.00	€	525,000.00	€	352,500.00	€	517,500.00	€	615,000.00	€	780,000.00	€	487,500.00	€	637,500.00	€	817,500.00	€	1,050,000.00
										Fixed cost	s													
Advertising	€	10,000.00	€	10,000.00	€	10,000.00	€	10,000.00	€	10,000.00	€	10,000.00	€	10,000.00	€	10,000.00	€	10,000.00	€	10,000.00	€	10,000.00	€	10,000.00
Servers (Web + Database)	€	2,500.00	€	2,500.00	€	2,500.00	€	2,500.00	€	2,500.00	€	2,500.00	€	2,500.00	€	2,500.00	€	2,500.00	€	2,500.00	€	2,500.00	€	2,500.00
API Services	€	125.00	€	125.00	€	125.00	€	125.00	€	125.00	€	125.00	€	125.00	€	125.00	€	125.00	€	125.00	€	125.00	€	125.00
										Variable co:	ts													
Equipments	€	3,750.00	€	3,750.00	€	3,750.00	€	3,750.00	€	5,000.00	€	5,000.00	€	5,000.00	€	5,000.00	€	5,000.00	€	5,000.00	€	5,000.00	€	5,000.00
Bank loan (40k)	€	4,954.26	€	4,954.26	€	4,954.26	€	4,954.26																
Salaries	€	41,500.00	€	41,500.00	€	41,500.00	€	41,500.00	€	52,750.00	€	52,750.00	€	52,750.00	€	52,750.00	€	52,750.00	€	52,750.00	€	52,750.00	€	52,750.00
Total costs	€	62,829.26	€	62,829.26	€	62,829.26	€		€	70,375.00	€		€		€		€	70,375.00	€	70,375.00	€	70,375.00	€	70,375.00
Benefits (per quarter)	€	139,670.74	€	315,920.74	€	368,420.74	€	462,170.74	€	282,125.00	€	447,125.00	€	544,625.00	€	709,625.00	€	417,125.00	€	567,125.00	€	747,125.00	€	979,625.00

II. Explanations:

- A. In case of pessimistic scenario we are paying the Bank loan + taxes;
- B. In case of pessimistic scenario we are spending less on equipments;
- C. In case of pessimistic scenario we are spending less on Salaries (just 3 of us + full stack + 1 sales manager);

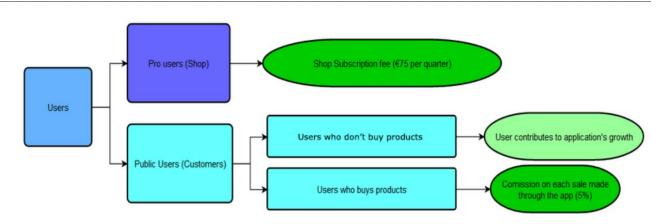
- D. In case of realistic scenario all variables are the same as in the cashflow;
- E. In the optimistic scenario and realistic, we are spending a little more on salaries (3 of us + fullstack + 2 sales manager, everyone fulltime

III. Flowchart and monetization strategy

A. Expansion plan:

- 1. Year 2:
 - a) Lleida (130k potential users, 2.4k potential shops)
- 2. Year 3:
 - a) + Terrasa (220k potential users, 4.1k potential shops)
 - b) + Tarragona (140k potential users, 2.7k potential shops)
- 3. Year 4:
 - a) + Barcelona Barcelona city (1,6kk potential users, 30k potential shops)

Further expansion: All of Barcelona Metropolitan Area + Madrid



Considerations:

- Company is opened as a "Limited Society" without offices.
- The idea is to start the application in the local shops of Lleida. (Year 2)
- In Year 3 we expanded business to Terrassa and Tarragona.
- In Year 4 we expanded business to Barcelona city, in this first year, we are on a "adaptation" process so the numbers do not reflect yet all the potential customers of the city.

Who? How many? Strategy Advertising Expected monthly growth Local Shops (Starting Year 2) Users interested in Lleida: 130k potential users Marketing campaigns supporting local business 2.4k potential shops (Starting Year 3) Users interested in Terrassa: 220k potential users Mouth-to-mouth (Users) 4.1k potential shops discovering new products Tarragona: 140k potential Geographically users 2.7k potential shops Barcelona: 1.6kk potential

> users 30k potential shops

IV. Structure of Income

Variables to consider:

- Number of users:
- Number of subscribed shops;
- Price per subscription (€75);

Income Formula:

(Number of subscribed shops * Price per subscription (€75))

+

(Number of users * User's sale per quarter(€90)) * Comission (5%)

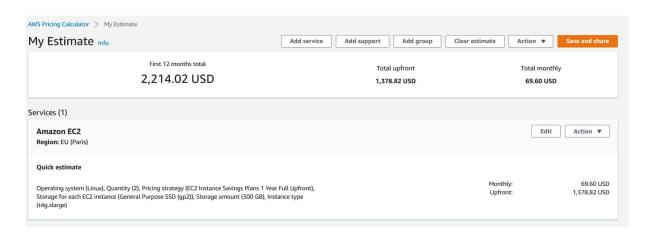
V. Structure of costs

- a. Database servers (mysql amazon database €1000 / year, paid in one time)
 - i. Year 1 €1000
 - ii. Year 2 €1000
 - iii. Year 3 €2500
 - iv. Year 4 €4000

db.t3.large

		PLAZO DI	E 1 AÑO ESTÁNDAR		
Opción de pago	Pago inicial	Mensual*	Efectivo por hora**	Ahorro en comparación con modalidad bajo demanda	Bajo demanda por hora
Sin gastos iniciales	0 USD	81,541 USD	0,112 USD	27 %	
Pago parcial inicial	466 USD	38,836 USD	0,106 USD	30 %	0,1520 USD
Pago total anticipado	913 USD	0,000 USD	0,104 USD	31 %	

- b. Web servers (Amazon EC2 €2200/year + EC2 Load balancer €160/year, paid on one time)
 - i. Year 1 €2200 + €160
 - ii. Year 2 €2200 + €320
 - iii. Year 3 €3500 + €480
 - iv. Year 4 €6000 + €640



c. API services (Google map, Stripe) €500 / year

- d. Advertising: € 12,000 / year 2 | € 22,000 / year 3 | € 40,000 / year 4
- e. Equipements (computer / accessories) : €5,000 year 1 | €15,000 year 3 | €20,000 year 4

f. Salaries

- 1. Scrum master (Starting year 2): € 35,000 /year (Tom)
- 2. Front-end expert (Starting year 2): € 26,000 /year (Marcel)
- 3. Back-end expert (Starting year 2): € 30,000 /year (Danillo)
- 4. Full Stack developer (Starting year 2 for maintenance halftime, on Year 3 starts implementing new features): € 30,000 /year
- 5. Sales manager (Starting year 3 & 4, 2 in total): € 45,000 /year
- g. Cost of development + cost maintenance

a) Year 1:

- (1) Cost of development: servers (\in 3200) + equipment (\in 5000) + API services (\in 500) + **Cost of opening the company S.L (\in3600)**
- (2) Cost of maintenance: 0

b) Year 2:

(1) Cost of maintenance: servers (€3200) + API services (€500) + Full stack developer (€15,000 halftime) + our salary (€45,500 halftime) + Advertising (€12,000)

c) Year 3:

- (1) Cost of development: Full stack developer (€30,000 fulltime) + our salary (€91,000 fulltime) + Sales manager (€45000)
- (2) Cost of maintenance: servers (€6000) + API services (€500) + Advertising (€22,000) + equipments (€15000)

d) Year 4:

- (1) Cost of development: Full stack developer (€30,000 fulltime) + our salary (€91,000 fulltime) + 2 Sales manager (€90000)
- (2) Cost of maintenance: servers (€10000) + API services (€500) + Advertising (€40,000) + equipments (€20000)
- VI. Payback, NPV, ROI, Break-even, Internal Rate of Return

A. Payback

Scenario: Realistic

Irregular Cash Flow Each Year

Result

Payback Period: 1.472 years

Discounted Payback Period: 1.916 years
Cash Flow Return Rate: 139.00% per year

	Cook Flour	Not Cook Flour	Discounted Cook Flour	Not Discounted Cook Flour
	Cash Flow	Net Cash Flow	Discounted Cash Flow	Net Discounted Cash Flow
Year 0	\$-100,000.00	\$-100,000.00	\$-100,000.00	\$-100,000.00
Year 1	\$86,900.00	\$-13,100.00	\$79,000.00	\$-21,000.00
Year 2	\$27,740.00	\$14,640.00	\$22,925.62	\$1,925.62
Year 3	\$373,240.00	\$387,880.00	\$280,420.74	\$282,346.36
Year 4	\$40,000.00	\$427,880.00	\$27,320.54	\$309,666.89
Year 5	\$2,356,740.00	\$2,784,620.00	\$1,463,350.12	\$1,773,017.01

Davidson Davidson	1.472 years
Payback Period	17.6 months

This means that the time needed to equate the cashflow with the initial investment is 17 months.

Obtained using calculator: https://www.calculator.net/payback-period-calculator.html

B. NPV

Scenario: Realistic

NPV										
Investment	€	(100,000.00)								
Year 1 cashflow	€	86,900.00								
Year 2 cashflow	€	27,740.00								
Year 3 cashflow	€	373,240.00								
Year 4 cashflow	€	2,356,740.00								
Interest %		1.05								
Total	€	2,944,620.00								
NPV	€	125,758.01								

Projected future cash flows, both positive and negative. Sum of discounted cash flows minus original investment (Of all 4 years).

NPV Formula (Excel): =VNA(Interest %, Year 1 cashflow: Year 4 cashflow) + Investment

C. ROI

Scenario: Realistic

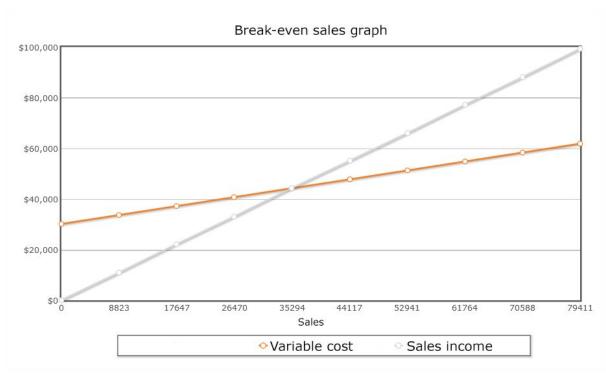
ROI										
€	(100,000.00)									
€	86,540.00									
€	26,860.00									
€	371,880.00									
€	2,354,740.00									
€	2,847,840.00									
€	593,100.00									
	21.5474									
	€ € €									

The ROI for an activity or product is a function of money invested and revenue produced. In this case we applied this model to our global cashflow.

ROI Formula: (Net income - Investment) / Investment

D. Break-even

Scenario: Realistic



This graph was made based on the number of sales (User's sales) made through our app needed to surpass the current total costs (In this case the costs are variable).

- 1 sale = 5% commission of a 25 euros product (estimation)
- Cost per unit: 0.40 euros

E. Internal Rate of Return

Scenario: Realistic

169.313% Internal Rate of Return

Calculator used: https://www.calculatestuff.com/financial/irr-calculator