



# RADECAPP

RAPID DEVELOPMENT PLATFORM FOR  
TECHNICAL APPLICATION

# BACKGROUND



Engineering and high-tech component providers release new products **several times per year**



Technical customers require **tools** to understand the value proposition of the new products to use them properly



Nowadays, most of the tools come in the form of electronic catalogues or **sizing software**.



# SOLUTION 1- EXCEL SHEETS

- Pros
  - Cheap and easy to develop
- Cons
  - Almost impossible to update after releasing
  - Impossible to control where and how it will be used
  - Easy to reverse engineer
  - Complex calculations require macros that affect compatibility
  - No analytics

Portfolio analysis - Excel

Formulas Data Review View Tell me what you want to do

Define Name Use in Formula Create from Selection Name Manager

Trace Precedents Trace Dependents Remove Arrows Evaluate Formula Show Formulas Error Checker

Function Library Defined Names Formula Auditing

C D E F G H I J

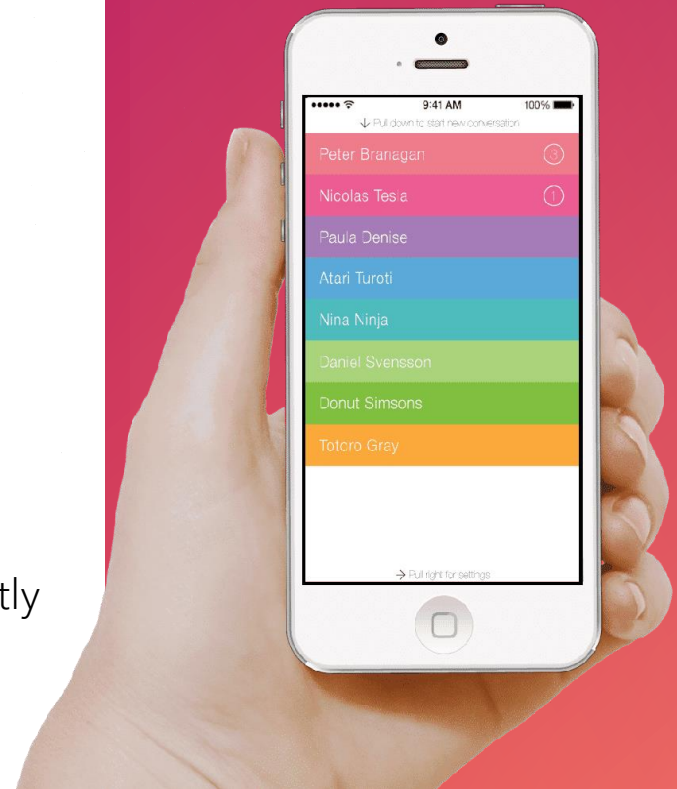
Analysis

							Total cost of accounts		
							Value of accounts		
							Unrealized gain/loss \$		
							Unrealized gain/loss %		
Account Name	Symbol	Quantity	Price Per	Trade Fee	Purchase Price	Quote	Market Value		
Loyal3	NASDAQ:TMUS	1	\$ 42.49	\$ -	\$ 42.49	\$ 52.00	\$ 52.00		
E-Trade (Speculative)	NYSE:NRG	2	\$ 26.58	\$ 14.00	\$ 67.16	\$ 14.36	\$ 28.00		
E-Trade (Speculative)	NYSE: NOC	10	\$ 215.00	\$ 14.00	\$ 2,164.00	\$ 250.00	\$ 2,500.00		
E-Trade (Speculative)	NYSE: LUX	20	\$ 51.74	\$ 14.00	\$ 1,048.80	\$ 60.00	\$ 1,200.00		
E-Trade (Speculative)	NYSE: SNY	40	\$ 39.10	\$ 14.00	\$ 1,578.00	\$ 50.00	\$ 2,000.00		
E-Trade (Speculative)	HKG: 0011	5	\$ 132.00	\$ 14.00	\$ 674.00	\$ 140.00	\$ 700.00		
E-Trade (Speculative)	HKG: 0006	20	\$ 73.70	\$ 14.00	\$ 1,488.00	\$ 80.00	\$ 1,600.00		
E-Trade (Speculative)	ETR: IFX	50	\$ 13.21	\$ 14.00	\$ 674.50	\$ 20.00	\$ 1,000.00		
E-Trade (Speculative)	EPA: OR	10	\$ 165.00	\$ 14.00	\$ 1,664.00	\$ 180.00	\$ 1,800.00		
E-Trade (Speculative)	ETR: BAYN	12	\$ 90.42	\$ 14.00	\$ 1,099.04	\$ 100.00	\$ 1,200.00		
Broker	NYSE: ETG	100	\$ 14.65	\$ 14.00	\$ 1,479.00	\$ 25.00	\$ 2,500.00		
E-Trade (Speculative)	MUTF: TDUEX	100	\$ 13.03	\$ 14.00	\$ 1,317.00	\$ 20.00	\$ 2,000.00		
E-Trade (Speculative)	MUTF: USATX	100	\$ 13.79	\$ 14.00	\$ 1,393.00	\$ 20.00	\$ 2,000.00		
E-Trade (Speculative)	MUTF: LCSAX	100	\$ 10.13	\$ 14.00	\$ 1,027.00	\$ 15.00	\$ 1,500.00		
Broker	N/A	100	\$ 50.00	\$ 14.00	\$ 5,014.00	\$ 70.00	\$ 7,000.00		
							\$ -	\$ -	
							\$ -	\$ -	
							\$ 20,729.99	\$ 27,080.00	
		Dividend Acc YRLY	\$50.00			2 YR Dividend	\$100.00	2 YR Interest	
						4 YR Dividend	\$200.00	4 YR Interest	
						10 YR Dividend	\$500.00	10 YR Interest	

Windows Taskbar: Edit - Super User - ... Portfolio analysis - ...

# SOLUTION 2- NATIVE APPS

- Pros
  - Infinite customization and design options
  - Protects intellectual property when designed properly
  - Easy to update and to deploy
  - Analytics
- Cons
  - Graphical Interface design is expensive, time consuming and frequently fails
  - Programmers will consume hundreds of hours from the product development scientists and engineers
  - Development can take months
  - If built over closed platforms (Firebase, Azure, etc...), service fees must be paid until the end of the app life



# RADECAPP



Rapid development framework  
for technical software



Features the simplicity of Excel  
spreadsheets with the power and  
security of native apps

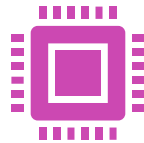
# RADECAPP



Deploy technical apps without external programmers



Provides everything to develop and deploy technical apps in days



Built over free open source platforms. Oracle and Microsoft licenses are not required



Secure from the base to the top using strong encryption, virtualization, access control lists, and remote processing



Allow continuous development during production

# REFERENCES

- RADECAPP technology powers Plutocalc Designer: [www.plutocalc.com/designer](http://www.plutocalc.com/designer)



# OVERVIEW - CORE

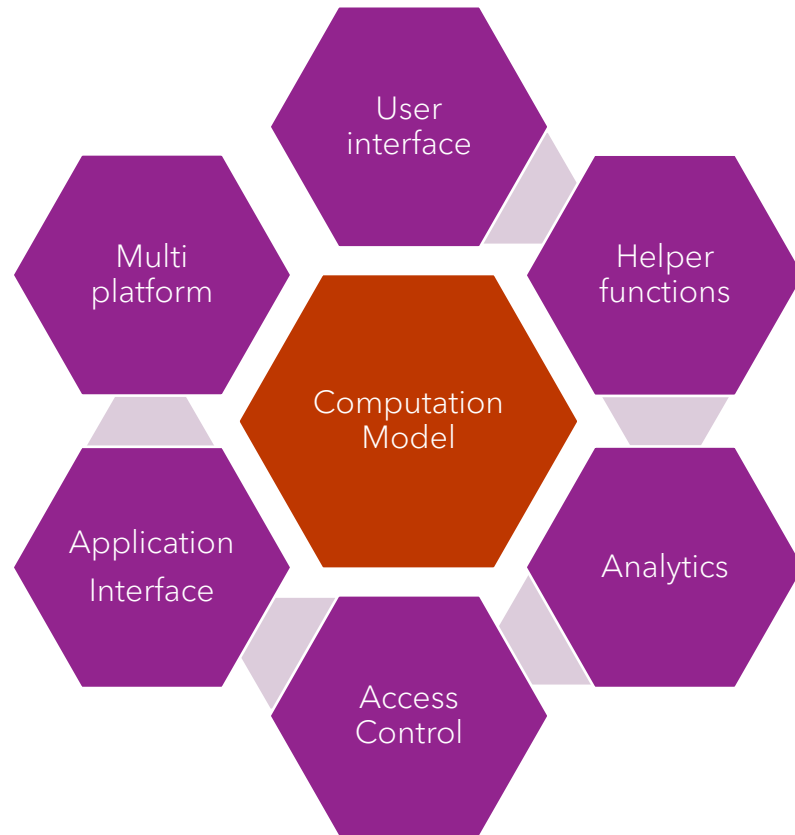


A complete package with everything needed to design and publish a technical app in days.

The ecosystem is platform agnostic, it can run on any server, from cheap shared hosting companies to complex multi-core servers in AWS.



# OVERVIEW - MODEL

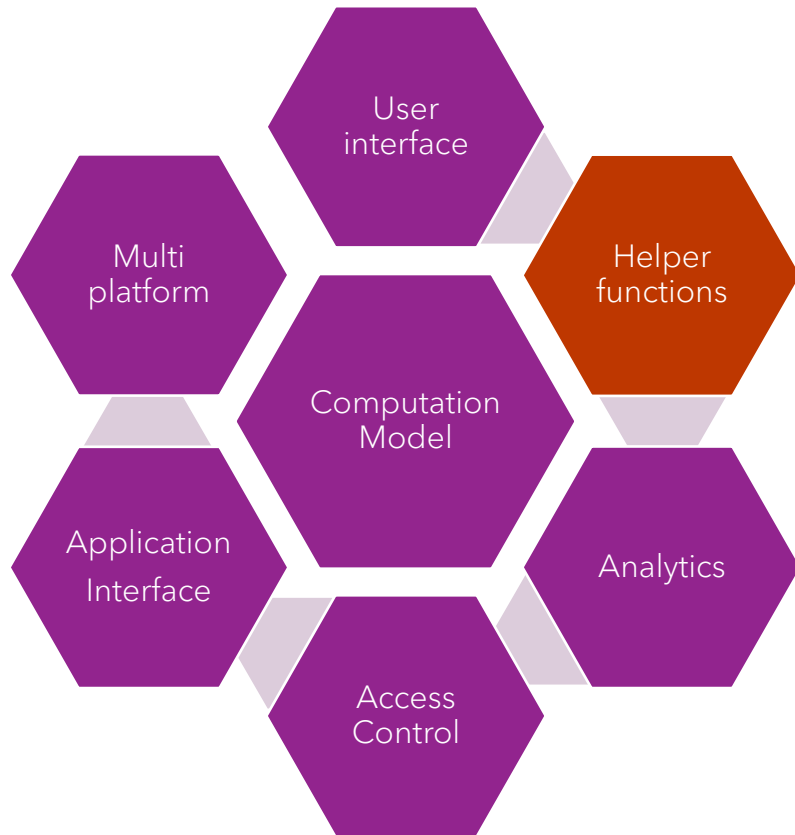


The heart of the application, the **computation model** can be written inhouse by the product development team.

Scientists or engineers with basic programming skills can deliver a minimum viable product in days. Intellectual property stays at home.

If performance is required, the underlying technology supports virtualization and parallelization.

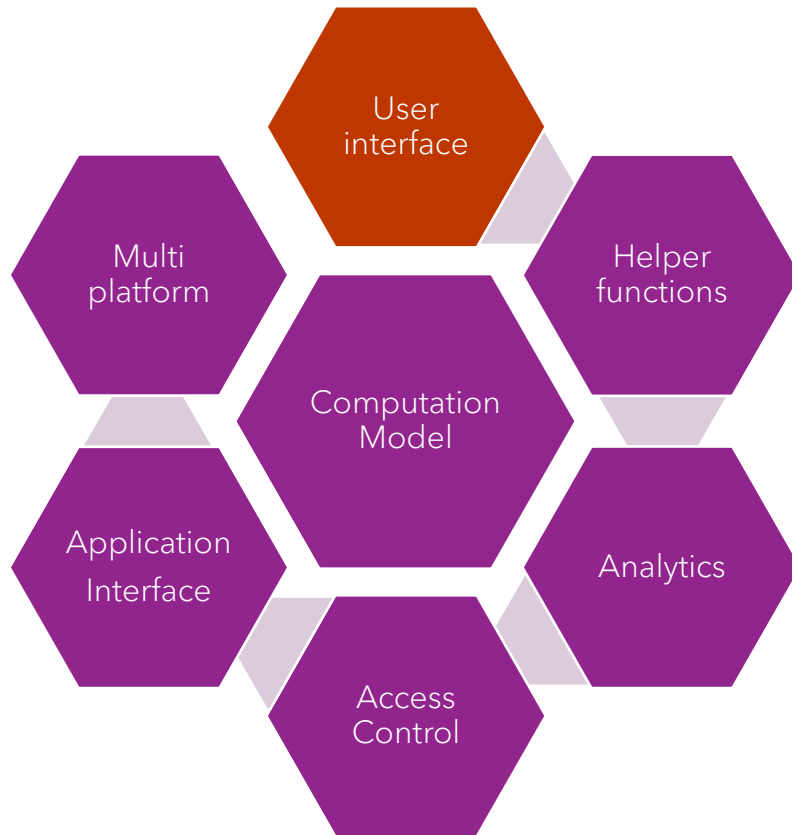
# OVERVIEW - HELPERS



To save time of the computing model developers, several common tasks like **unit conversions**, **user input validation** and **numeric solvers** are executed by built in helper functions.

Helper functions can also detect abuse, prevent crashes and block problematic users, robots and brute force attacks.

# OVERVIEW - GUI

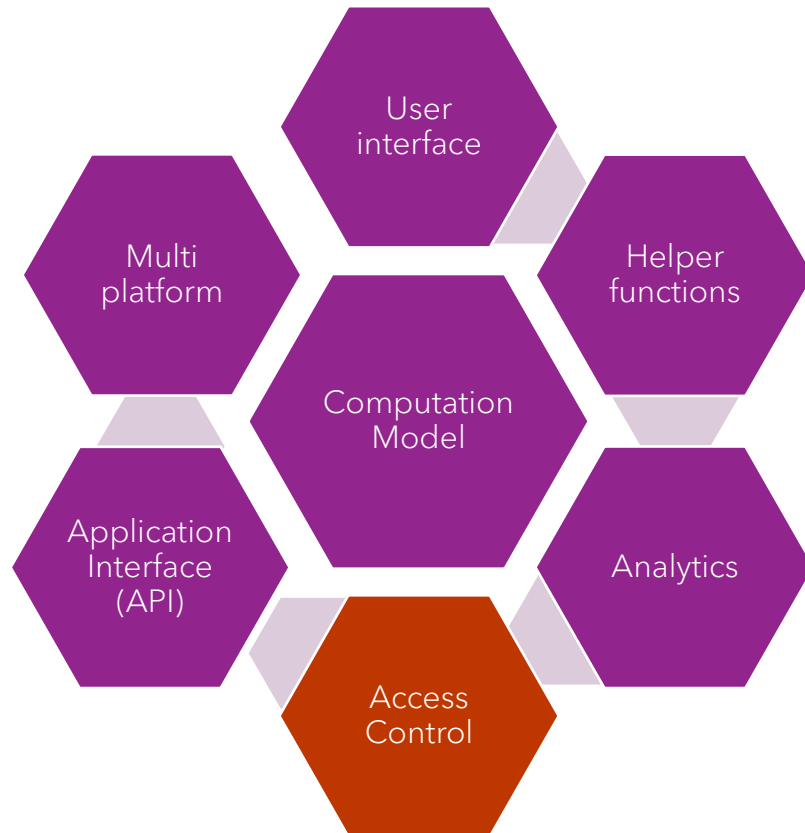


The **graphical user interface**, the nightmare of any application development team and the major cause of failures works out of the box in this platform.

The interface is simple but fully customizable and was designed to fit any screen size.

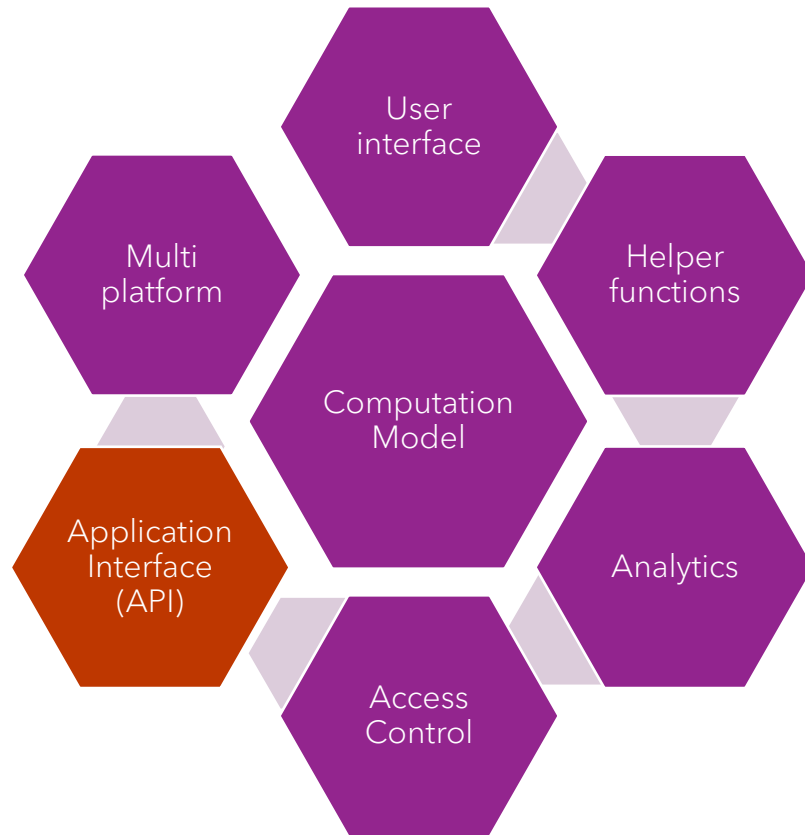
Output to colourful graphics? No problem this is also supported.

# OVERVIEW - ACL



**Access control** is the function that allows the owner to limit who can access and use several features in the tool. Different customers can have different privileges.

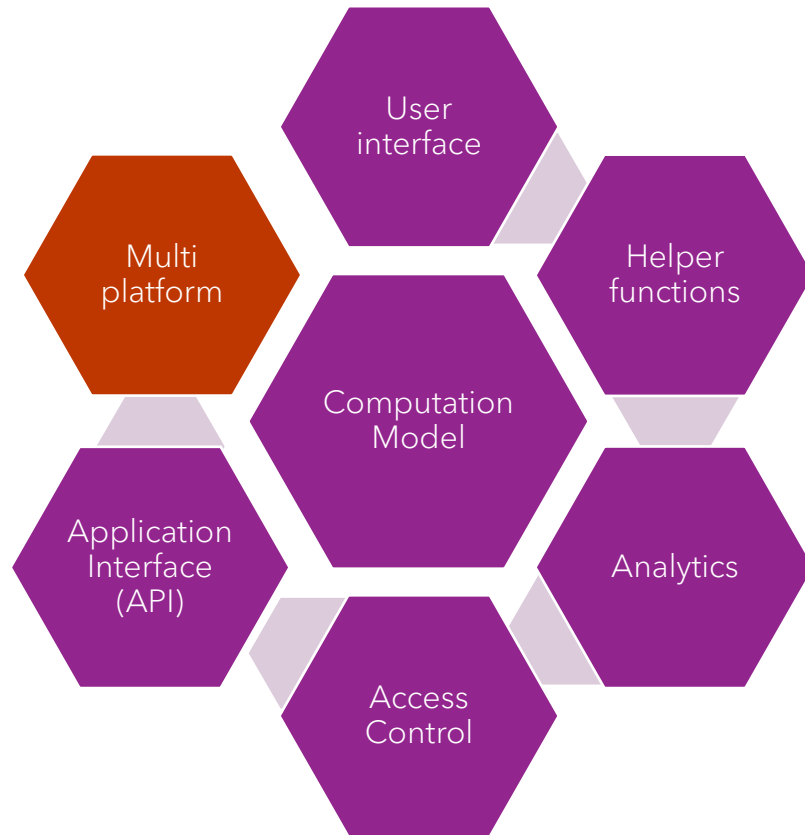
# OVERVIEW - API



The **Applications Interface (API)** allows other applications to connect with the computation model. It can be an internal tool like a Matlab that provides data for the calculations or an external tool like a database or even a customer owned output system.

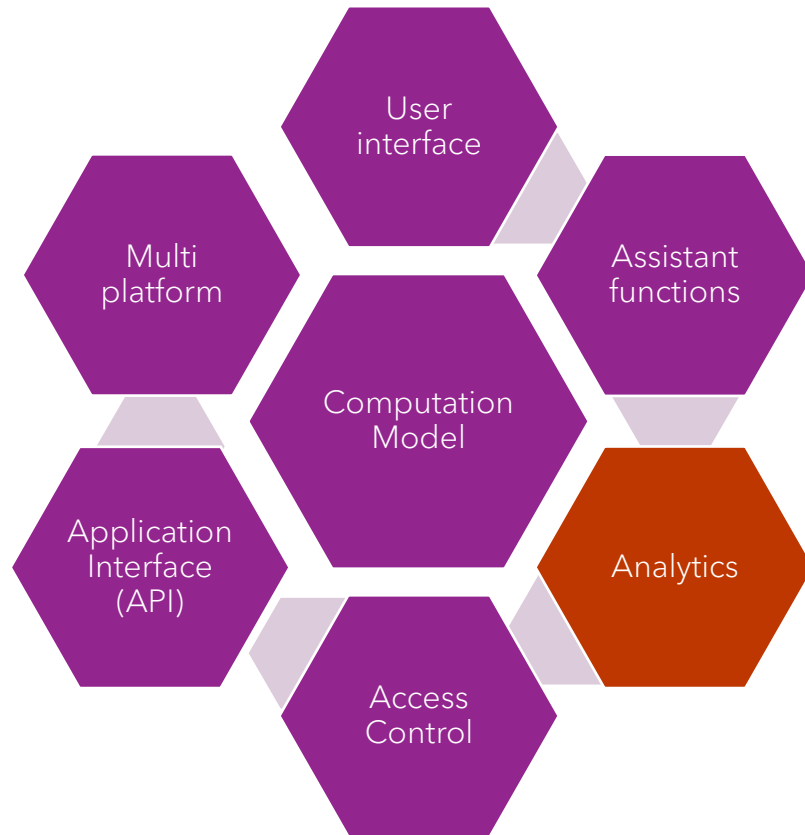


# OVERVIEW - PLATFORMS



Android, iOS, PC, Mac, Raspberry PI? No problem. The application works everywhere without any need of customization.

# OVERVIEW - ANALYTICS



Analytics can be provided by third party tools like Google, Microsoft or Salesforce. If you only need to know who is using the tool, the ACL module got you covered.

# INTERESTED?

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