

• PB & AI

The *dream* of a web UI from PB

Two worlds no longer parallel, thanks to generative AI

From a PowerServer installable cloud app to a full-web module – in two weeks.

PowerBuilder

Full-Web

GenAI-Assisted

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PBwink CTO & Appeon MVP

```
n_web_migration.of_run()  
  li_days = 14  
  ls_target = "full-web"  
  this.of_scaffoldFromPBL(ls_target)  
  this.of_askGenAI("layout suggestion")  
  // Appeon Elevate • 2026  
  $ npm run build --target=full-web
```

• AGENDA

Where we are going

1 Customer profile

HMS Consulting and the application behind this story.

2 PB and the web

The dream, what Appeon delivered, and what it leaves open.

3 The walls

Chasing a moving compliance target + occasional users performing quick tasks.

4 The goal

Web UI sharing same ICA backend.

5 The method

Generative AI as the design partner – and the two weeks.

6 The result

The integrated module, and what we learned.

• THE CUSTOMER

HMS Consulting

Started in 1990

Founded

Hospitals &
Public admin.

Focus

2010

Appeon solutions since

13 • 1

Team • PB developers

Human resources management, development policies, regulations, planning and control systems for the Italian National Health Service.

The application behind this story

- Named AlfaBox – multi-tenant PS2025 R2 ICA
- 15 Years in production (Appeon Web / PowerServer)
- Customers: 70 sites – User population: 75.000 registered users

• THE FIRST WALL

Installing is possible, but we need compliancy.

1 Installation is certified

Hospitals and P.A. don't ban installed software outright – they require certified products to run on (locked-down) workstations.

2 The rules keep moving

What passes certification today can need re-approval tomorrow. Compliance becomes a moving target, not a one-time checkbox.

3 That volatility doesn't scale

Chasing a changing standard across hundreds of machines and many sites turns into a permanent, open-ended project.

Reference rules: Agid "minimum ICT security measures for P.A." ACN guidance, customers' own security policy.

Customer is not going for full web because installing is impossible, but to stop chasing a moving compliance target.

• THE SECOND WALL

Generic user: few modules carved out of the larger ICA

Expansion of the user base for certain modules: moving from a select group of corporate professionals – who might use Alfabox occasionally to evaluate their teams – to all employees, who, within a more diverse and collaborative software ecosystem, need to be able to work even when away from their (Windows-based) office workstations.

3

module rewritten

2

weeks, end to end

~ 25

screens in scope

~ 51000

target users

Why these modules first

- The ones that a general user base actually touches with high volume of use
- The activities in this module are not transactional, simple interactive sheets
- A module perfect for mobile/web use

What stayed exactly where it was

- The database and its schema
- The business rules already implemented server-side
- The rest of the PowerServer application, untouched and in production

• PowerServer ICA

ICA: what it solved for the customer, what it leaves open

+ Solved

- Database credentials no longer live on the client
- Business logic runs server-side, reached over HTTPS Web APIs
- Versions update themselves through the Cloud App Launcher
- Modern authentication: JWT and cloud identity providers (MS EntraID, LDAP, Okta)
- One deployment feeds every workstation

- Open

- There is still something to install on every PC
- Installation and updates still need IT approval and right for P.A. customers, depending on their IT policies
- The client is Windows-only, no macOS or Linux or Mobile
- No browser-only access, the UI is a desktop interface

> Source: Appeon PS documentation – ICA deployment model.

• THE METHOD

Generative AI as the design partner

We used Claude Code to build the mockup, working directly on the pieces underneath the screen – not just on how it looks.

+ Under the hood

- APIs – the AI worked directly on the API layer
- Authentication – the AI worked directly on the login flow
- Token generation – the AI generated the token handling

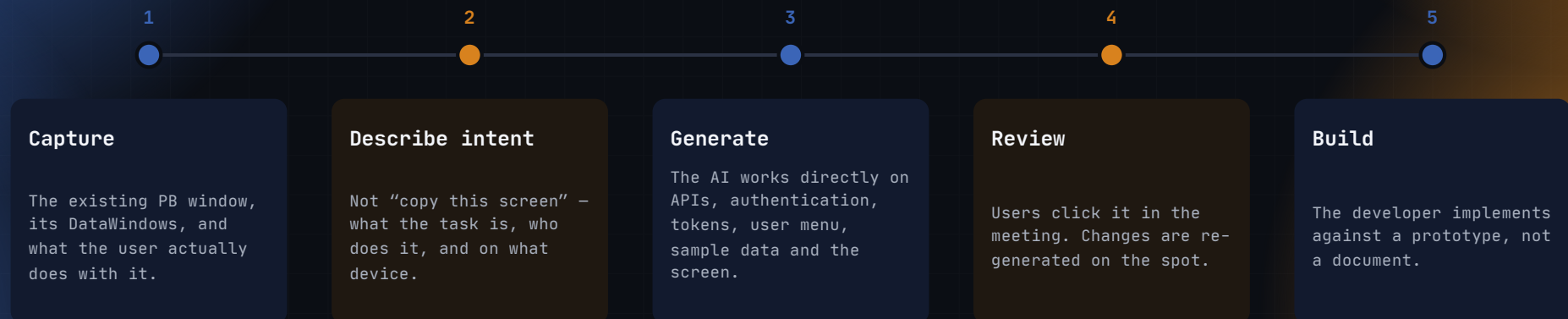
- What the user sees

- User menu – generated by the AI
- Generic data – sample data generated to fill the screen
- The screen itself – the mask, generated by the AI

> *Not a drawing of the screen: the AI worked directly on the building blocks underneath it.*

• THE METHOD

The interactive mockup as living specification



A user cannot review a specification, but anyone can review a screen they can click. The ambiguity is spent before the first line of production code – and the developer inherits a prototype that already answers the questions a document would have left open.

Demo time

• THE RESULT

Bulletproof ICA

File Utility AlfaScorer Strumenti Modifica ?

Uscita Gruppo Schede Trasmetti Profilo Elimina Salva Stampa Stampa...

Anagrafe Valutati - Dirigente Valutatore: ROSSI MARIO (123456), CDR: ['A' - '']

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MATRICOLA 314001 DATA NASCITA

NOME **ACCARDO ROSA**

ASSUNZIONE/DIMMISSIONE (SSN) 01/01/00 /

ASSUNZIONE TEMPO INDETERMINATO 01/01/00

QUALIFICA A Categoria A

STRUTTURA A UOC Medicina A

% ASSEGNAZIONE 100 % PART TIME 100,00

SCHEDA PREVENTIVA ✓

SCHEDA FINALE

Trova: Nome Valutatore

AREA	MATRIC	NOME	PERIODO	G.O.	LOCK	VISTO
COMP	314001	ACCARDO ROSA	01/01 31/12	SC		
DIRMED	73852	BIANCHI MARIO	01/01 31/12	inf	P	
DIRMED	3390	DANIELE ANTONIELLO	01/01 31/12	inf		
COMP	00001	DENIS K.	01/01 31/12	SC		
DIRMED	103459	LORU GIOVANNI BAT	01/01 31/12	TEST	F	
COMP	666	MICHELE CECCARINI	01/01 31/12	SC		
DIRMED	123456	ROSSI MARIO	01/01 31/12	TEST2		
DIRMED	20_4099	RUSSO CINZIA	01/01 15/10	NEWG		
COMP	imp	TEST IMPORT	01/01 31/12			
DIRMED	valA1	VALUTATO DEMO	01/01 30/06	inf		
DIRMED	valA1	VALUTATO DEMO	01/07 31/12	inf		

SCHEDA PREVENTIVA

STRUTTURA COMPLESSA Punt: 38,0 Score: 48,08

	Liv. 1	Liv. 2	Liv. 3	Liv. 4	Liv. 5
1. Area ORIENTAMENTO ALL'INNOVAZIONE					1,0
1 1,0 È aggiornato sulle modifiche normative, sulle direttive regionali e sulle attività di altre asp nel settore di propria competenza	1	2	3	4	5
2 1,0 Dimostra capacità nel promuovere e gestire le innovazioni tecnologiche e procedurali curando gli adeguati processi formativi	1	2	3	4	5
3 1,0 Valorizza le competenze individuali dei collaboratori e contribuisce a creare un ambiente in cui il personale è incoraggiato a suggerire innovazioni in merito ai servizi offerti ai processi alle aree di	1	2	3	4	5
4 1,0 Favorisce interventi di rete finalizzati ad un migliore raggiungimento dei risultati	1	2	3	4	5
2. Area CAPACITA' MANAGERIALI					1,0
5 1,0 Partecipa attivamente costantemente alle attività direzionali proposte dalla Direzione generale quali processo di budget iniziative formative gruppi di lavoro ove richiesto	1	2	3	4	5
6 1,0 Agisce costantemente in coerenza con le linee guida aziendali nel rispetto delle priorità, dei vincoli e delle compatibilità aziendali	1	2	3	4	5
7 1,0 Anticipa e risolve i problemi relativi alla propria area di influenza organizzativa in rapporto alle criticità generali viroela in modo da affiancare la direzione generale nella risoluzione delle stesse	1	2	3	4	5
8 1,0 Comprende il ruolo che le politiche aziendali esercitano rispetto alle sue decisioni, assicurandone la corretta implementazione	1	2	3	4	5

Annotazioni del VALORIZZATORE:

SCHEDA PREVENTIVA TRASMESSA IN DATA

SCHEDA FINALE TRASMESSA IN DATA

Il Dipendente VALORIZZATO:

☐ Prende visione scheda preventiva in data

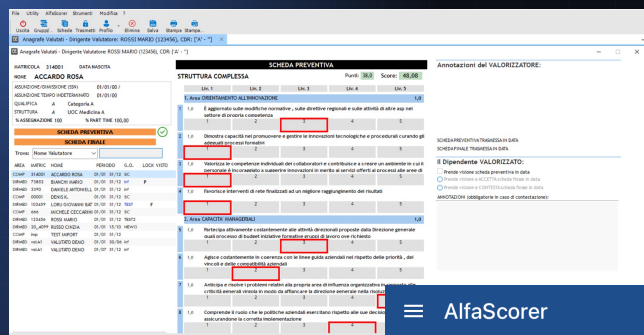
☐ Prende visione e ACCETTA scheda finale in data

☐ Prende visione e CONTESTA scheda finale in data

ANNOTAZIONI (obbligatorie in caso di contestazione):

• THE RESULT

AI-generated web (structured) mockup



AlfaScorer

Year
2020

mockup

Evaluation periods · 2020

- 01 Jan 2020 – 31 Dec 2020
UOC Medicina A · Categoria A
- Evaluation data
- Preventive sheet
- Final sheet
Sheet type: INF

Preventive sheet

ACCARDO ROSA · UOC Medicina A · Categoria A · 01 Jan 2020 – 31 Dec 2020 · Sheet type INF

Criteria: 5 Assessed: 5 / 5 Average level: 0.40

Criterion	Level 0	Level 1	Level 2	Level 3	Level 4	Level 5
1. Corretta applicazione dei piani di lavoro per la conservazione dei farmaci e presidi	Not assessable	5	4	3	2	nessuna segnalazione di non conformità
2. Capacità di risoluzione delle problematiche in autonomia	Not assessable	non autonomo	non capace	capace	autonomo	problem solver
3. Corretto utilizzo della modulistica aziendale in uso	Not assessable	4	3	2	1	nessuna segnalazione di non conformità
4. Disponibilità alla copertura di cambi turni improvvisi	Not assessable	adesione < 70%	adesione > 70%	adesione > 80%	adesione > 90%	100%
5. Disponibilità alla permanenza oltre l'orario di servizio per il completamento delle attività	Not assessable	0	1	2	3	4

Reviewed, production-ready, web app

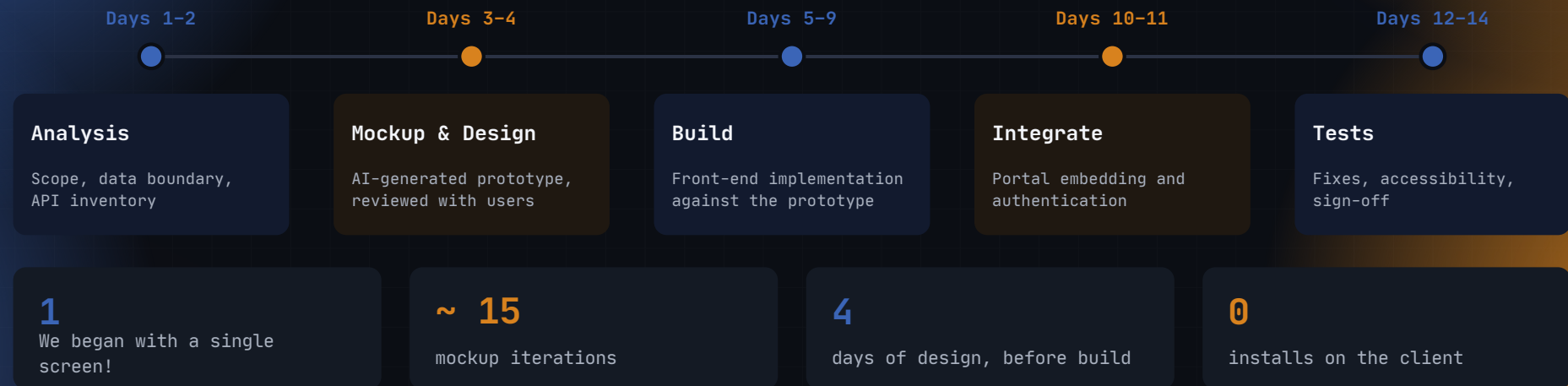
PBUGG x APPEON ELEVATE 2026

• THE METHOD

Demo time

• THE METHOD

Two weeks, day by day



Two weeks for one module – with the database, the rules and the rest of the application left alone.

• THE METHOD

The interface: One entry point, one identity

> Direct browser access

Any device, any modern browser. Nothing installed, nothing downloaded.

> From inside Alfabox

Users who already have Alfabox installed open the module right inside that same window.

↓ same module, same login ↓

Full-web module

The same module and back end, either way you get there.

Authentication

- Single sign-on from Alfabox – the user authenticates once

• THE RESULT

What we learned

What we learned:

1 Full web is a compliance feature

For a class of customers, “nothing to install” is the entry ticket – not a nice-to-have.

2 Cut a module, not an application

A clear boundary is what makes a short timeline honest instead of optimistic.

3 AI works on the real building blocks

APIs, authentication, tokens and the user menu were part of what it generated – not just the screen.

4 Keep the back end where it is

Same database, same rules, new head. The lower the blast radius, the faster you ship.

Thank you.

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· `[ pbwink.com ]` ·