



Blog

What is Notes Migration & Why OutSystems for Notes?

```
mirror_mod = modifier_ob.  
#set mirror object to mirror  
mirror_mod.mirror_object  
_operation == "MIRROR_X":  
mirror_mod.use_x = True  
mirror_mod.use_y = False  
mirror_mod.use_z = False  
_operation == "MIRROR_Y":  
mirror_mod.use_x = False  
mirror_mod.use_y = True  
mirror_mod.use_z = False  
_operation == "MIRROR_Z":  
mirror_mod.use_x = False  
mirror_mod.use_y = False  
mirror_mod.use_z = True
```

```
#selection at the end -add  
mirror_ob.select= 1  
modifier_ob.select=1  
context.scene.objects.active  
("Selected" + str(modifier_ob.  
mirror_ob.select = 0  
= bpy.context.selected_object  
data.objects[one.name].select  
print("please select exactly
```

--- OPERATOR CLASSES ---

```
types.Operator):  
X mirror to the selected  
object.mirror_mirror_x"  
mirror X"
```

```
context):  
context.active_object is not
```



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What is Domino/Lotus Notes?

Why do enterprises need to migrate from Lotus Notes?

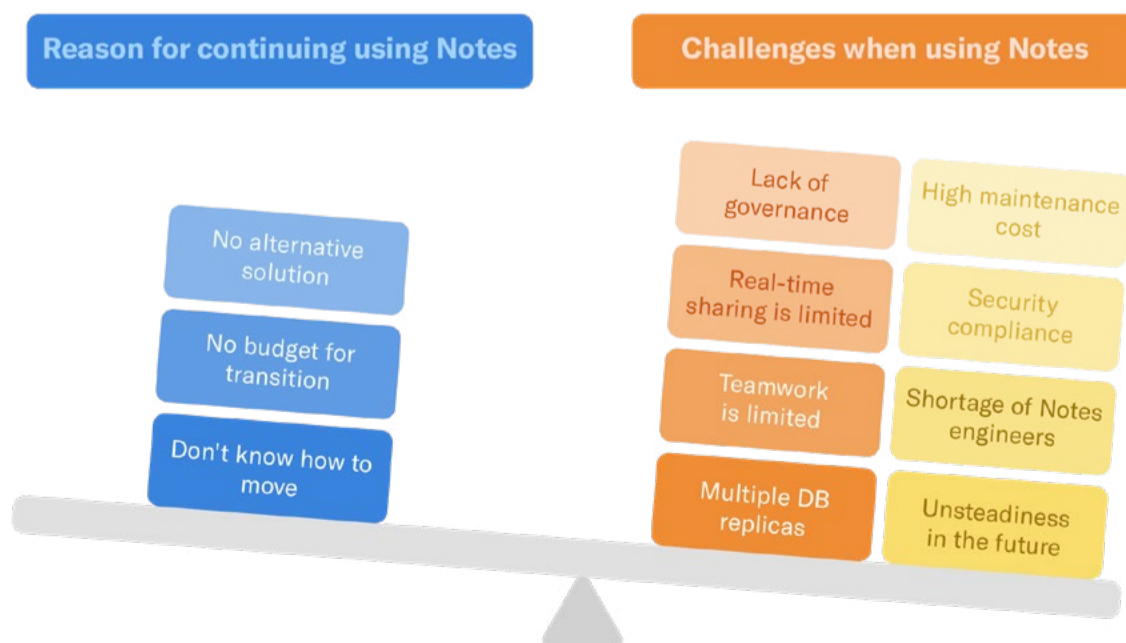
Domino/Lotus Notes was published by IBM in 1989 and later on sold to HCL Technologies in 2018.

Domino/Lotus Notes is groupware platform, provides business collaboration functions, such as email, calendars, to-do lists, contact management, discussion forums, file sharing, microblogging, instant messaging, blogs, and user directories. It can also be used with other HCL Domino applications and databases.

Lotus Notes was known for steady performance, fast data replication, high data security and safety. In addition, Lotus Notes supports a variety of programming languages, enabling programmers to create applications that meet all user requirements.

However, after 30 years of development, Domino/Lotus Notes has been encountering issues:

- High license maintenance fee, high maintenance cost.
- Client/server platform is no longer compatible in the era of web and mobility.
- Number of developers who are familiar with the Lotus Script programming language has been increasingly deficient.
- Cannot compete with other groupware platforms.
- Limited capability in teamwork and sharing activities.



To that end, more than 10 years ago there came a trend of migrating Notes to other groupware platforms such as Microsoft SharePoint, Cybozu, Google Apps,...

Current status of Notes Migration

With over 10 years of experience in doing Notes Migration in many large-scale projects valued millions of dollars for Global companies, together with the objective practical experience as a System Integrator, we recognize some issues in doing Notes Migration as follows:

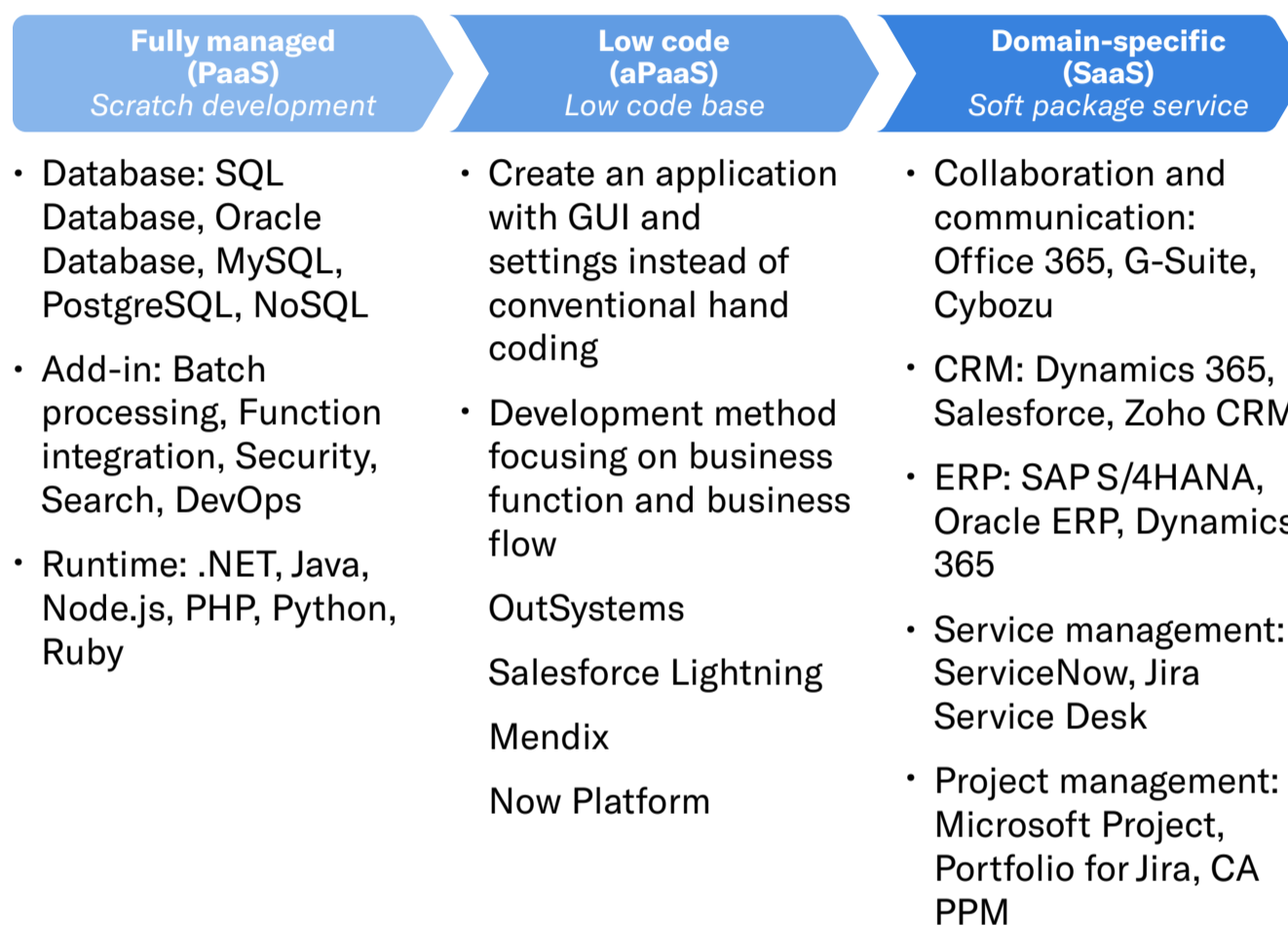
- Destination platforms are not as favorable as Notes, for instance, interface customization is difficult, operations are complicated,...
- For business applications with low performance, the need to use a 3rd workflow causes pricey license cost.
- Customizing an existing platform leads to the fact that when the destination environment is upgraded, it will immensely affect the system. For this reason, the overall performance is unsteady.
- Long development time leads to cost increases, hence impacting negatively on the business.



There comes a challenge for us. Which is the best platform to solve all of the above limitations?

Which is the best platform to do Notes Migration?

When consulting customers, we evaluate 3 types of platform which possibly perform Notes Migration the most properly as below:



Domain specific:

- **Pros:** Less time taken, less effort taken.
- **Cons:** Can only meet the requirements of typical applications such as Discussion, Document Library, Calendar, simple workflow.





Which is the best platform to do Notes Migration?

Low code:

- **Pros:** Relatively fast development time, flexible programming, easy to learn and maintain.
- **Cons:** Cannot meet requirements which focus on core businesses or involve complicated operations.
 - After evaluating the above platforms, we will conduct assessment for all Notes applications and suggest an appropriate destination platform for each.
 - In case of a Notes application collaboration along with not many special customizations, platforms like SharePoint, Office 365, Cybozu ...are recommended.
 - For relatively complex applications which include specialized operations, the existing platforms will not be able to serve, thus, development is required. At this time, a low-code platform is advisable. Plus, this type of application is the most popular.
 - For applications with very high complexity, low code platform may not meet the needs. To , it is required to use C #, Java programming languages to develop the application from scratch. However, the number of these applications is modest.

Notes App Category	Complexity	Migration Methodology	New Environment
Notes Utilities / Manual • DB list, Notes operational manual, Notes Utility... • Notes App that applies to retirement rules	Exclude	Retirement • Archive/Removal	Reference only environment
Collaboration Notes Apps • Bulletin Boards • Portal • Discussion Board • Document Storage • Knowledge Sharing/FAQ • Meeting Minutes/Report ...	L1 Simple Form L2 Simple Form with Logic L3 Complicate Form with logic and simple workflow L4 Complicate Form with logic and complicate workflow L5 Complex App L6 Super Complex App	Standardize or replace Using standard App as much as possible Data Migration Only Reconstruction • Development Standard • Grouping/ Template • Workflow Template • Business Template • Common Modules • Common Application • Well Organize Framework	Collaboration Platform Low-code platform
Specific Business Notes Apps • Request/ Approval Management • Document Management • Customer Management • User Department-specific apps • Product Management	L1 Simple Form L2 Simple Form with Logic L3 Complicate Form with logic and simple workflow L4 Complicate Form with logic and complicate workflow L5 Complex App L6 Super Complex App	Commercial Package/ Scratch Development	Fully managed (PaaS)



Why OutSystems is an advisable low-code platform?

OutSystems is a low-code platform for the development of mobile and web enterprise applications, which runs in the cloud, on-premises or in hybrid environments.

In 2019 OutSystems was cited as a leader in the The Forrester Wave™: Low-Code Development Platforms For AD&D Professionals, Q1 2019 and in the Magic Quadrant for Enterprise Low-Code Application Platforms by Gartner.

In July 2019 OutSystems was also named a Leader in the Gartner Magic Quadrant for Multiexperience Development Platforms.

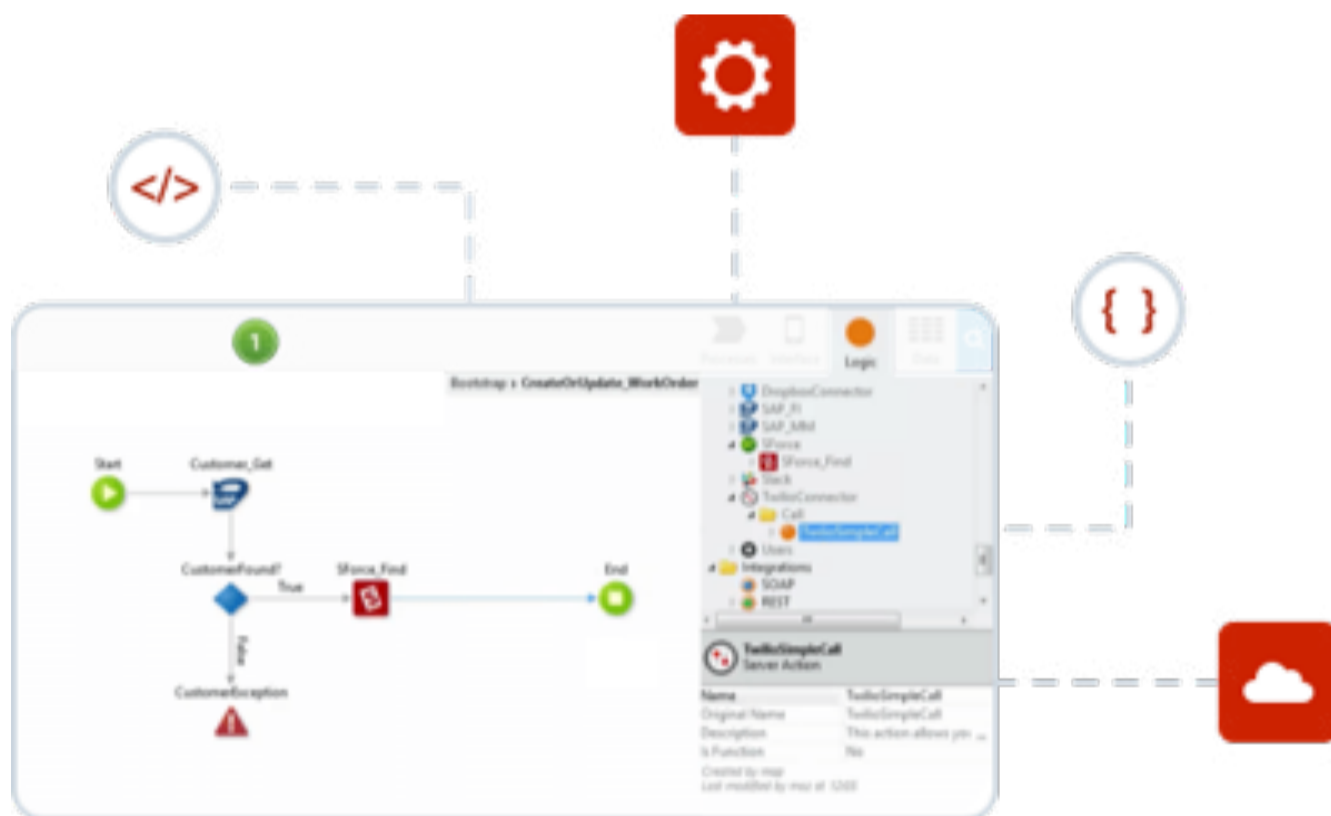
The OutSystems platform has won multiple CODiE Awards by the Software and Information Industry Association for Best mobile Development Solution in 2016, 2017, 2018 and 2019

Below is our overview evaluation when comparing OS to other platforms:

Criteria	OutSystems	Another platform
Accessibility	Easy to learn. Requires basic programming knowledge only.	More difficult to learn. Requires in-depth programming knowledge.
Deployment time	Fast. (1-ClickPublish). Focuses on specialized operations.	Normal. Needs to build environments for DEV, TEST, PRO.
Maintenance	Fast. Doesn't require a maintenance team.	Requires a maintenance team who understands the operations and developments.
Management	Centralized on the web. Doesn't require infrastructure knowledge.	Discrete at various servers. Requires infrastructure knowledge.
Ability to meet the operations	Roughly meets all the operations	Can only use or re-customize existing template package.
Mobility	The Reactive Web supports multiple devices.	Requires particular development.
Development cost	Compares to Notes: 60~80%. Compares to Scratch development: 50%.	Compares to Notes: Same. Compares to Scratch development: 75%.

Why OutSystems is an advisable low-code platform?

In terms of productivity, it is pronounced that OutSystems has higher productivity yet 30-50% lower development and maintenance costs than other platforms. OutSystems supports developers with lean development and deployment methods, which requires understanding of the business operations yet without much IT knowledge. Moreover, it is not necessary to care much about infrastructure matters (whether it is Database Server or Web Server or so on) to quickly deploy the application thanking to the 1-ClickPublish function of OutSystems. Plus, the development interface of OutSystems is very intuitive, mostly using drag and drop, which reduces development and maintenance costs.



In terms of coverage, we have demonstrated OutSystems on Notes applications that vary in difficulty, from simple view customization to complex workflow deployment, which all results in satisfaction.



Why OutSystems is an advisable low-code platform?

In terms of scalability, OutSystems can integrate with everything. Enterprise-class applications and systems development made simple. Integrate with industry-standard protocols, API implementation using REST and SOAP web services, and third-party business tools like SAP and SFDC. BYO tools and templates or use OutSystems. Either way, developers can build amazing things.



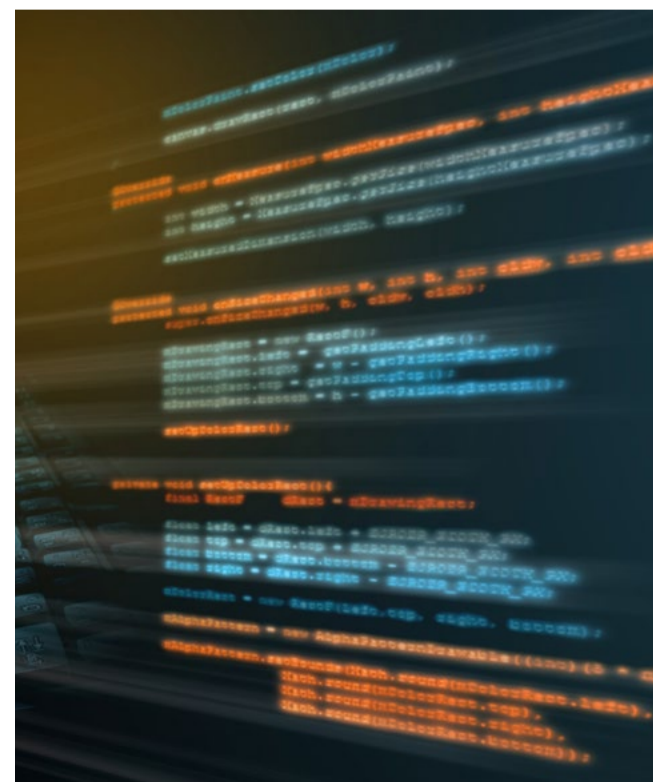
Furthermore, it is vital to mention Reactive Web of OutSystems which helps accelerate mobility process and promote business growth.

With all of the above dominances, OutSystems has been proved to be able to solve the problems we have encountered when doing Notes Migration.

The reason why FPT especially recommends Low Code for Legacy migration is that: FPT recognizes most enterprises are suffering billions of dollars in losses and the shortage of maintenance resource caused by inefficient old-fashioned platforms. Therefore, FPT's development strategy from 2020 to 2025 is to become a world class corporation, a pioneer in Digital Transformation, focusing on foremost solutions for legacy migration.

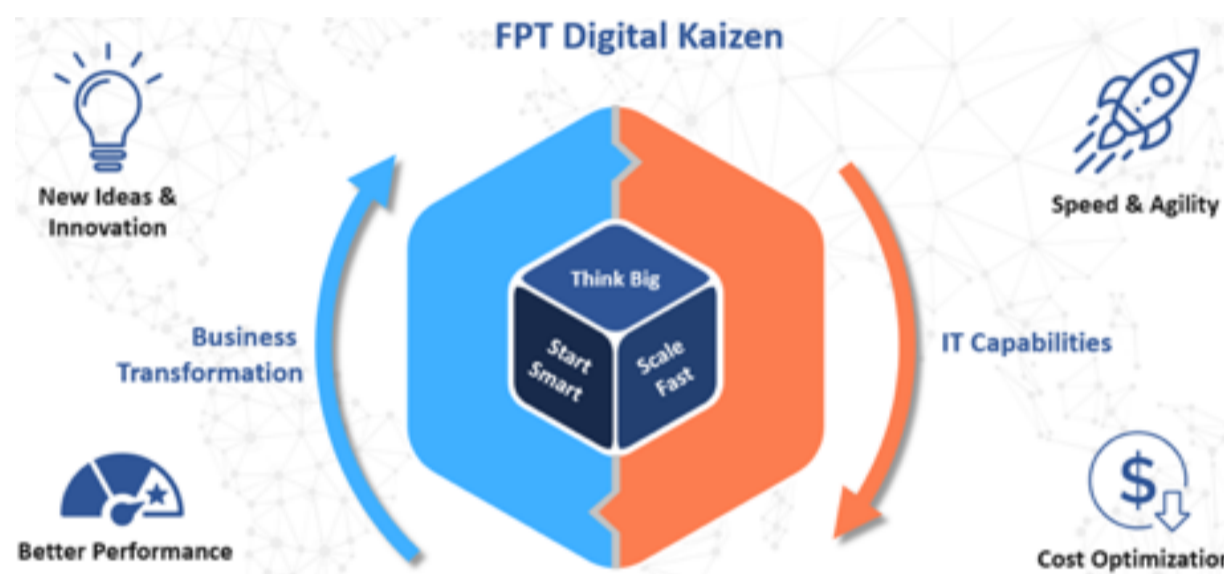
Together with our senior advisors, we has defined a new digital shift method called Digital Kaizen (trademark registered globally). FPT Digital Kaizen with the motto: "Think big, start smart, scale fast", which presents a distinct and brand new methodology. This methodology was supported by the former CIO of DuPont - Mr. Phuong Tram - who successfully transformed DuPont's IT systems thus helped save the company hundreds of millions of dollars.

This methodology is believed to help accelerate Legacy Migration and address the issues of "20225 Cliff" of Japan. Low code is a technology that fits FPT's strategy since it focuses on delivering applications faster, shortening time to market, thus improving ROI for businesses. Hence, this is an ideal combination of methodology and a technology that helps realize the methodology.



Why OutSystems is an advisable low-code platform?

Migration of a user - centric legacy collaboration, communication and applications without any hiccups requires three major fundamentals on design thinking



- Migration of a user - centric legacy collaboration, communication and applications without any hiccups requires three major fundamentals on design thinking
- **Think Big:** The target environments for migrate lotus notes to (infrastructures, archive, applications, workflow etc..) will be consistent with future IT blueprint (agility, cloud, mobile web centric, mainstream plug and play environment)
- **Start Smart:** FPT Digital Kaizen quickly engages all users in an end to end final solutions in design thinking that incorporate all users / coupling with modern IT capability and critical functionality to close existing lotus notes gaps and to close redundant or unwanted lotus notes featured to provide sustainable people and IT productivity gains
- **Scale Fast:** The FPT Digital Kaizen will deliver multiple projects with immediate results and achieve overall complete Lotus Notes migration in short duration with much less IT effort, ensure users buy-in and assure IT modernization success

FPT Digital Kaizen is the FPT trademark have been developed by Phuong Tram (former IO of DUPONT, Phuong has served as Advisory board members for various global organization: Research Board, TBM council, Dell Executive Advisory board, Salesforce, AT&T etc.

With FPT Digital Kaizen, we wish to provide a comprehensive service to accelerate the migration process, save costs, and guide businesses to approach new technologies.



FPT Software is part of FPT Corporation, a technology and IT services provider headquartered in Vietnam with nearly US\$1.2 billion in revenue and 28,000 employees. Being a pioneer in digital transformation, the company delivers world-class services in Smart factory, Digital platforms, RPA, AI, IoT, Mobility, Cloud, Managed Services, Testing, more. FPT Software has served over 700 customers worldwide, 83 of which are Fortune 500 companies in the industries of Aerospace & Aviation, Automotive, Banking and Finance, Communications, Media and Services, Logistics & Transportation, Utilities, Consumer Packaged Goods, Healthcare, Manufacturing, Public sector, Technology and so on.

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