

# SOFTWARE PROJECTS DOMAINS AND TYPES

A Guideline

# TYPES OF SOFTWARE DEVELOPMENT PROJECTS

## SYSTEM SOFTWARE

OS, OS Utilities & services, tools, device drivers, Antivirus, Antispam, Firewalls,

Hardware interfacing

Communication/Telecommunication/Networking software,

## SUPPORT SOFTWARE

DECISION SUPPORT SYSTEMS (MIS EXEC)

EXECUTIVE PLANNING

## APPLICATION SOFTWARE

TRANSACTION PROCESSING SYSTEMS (MIS OPER) POS

USER/USER ACCOUNT MANAGEMENT SOFTWARE

INVENTORY, STOCK, ATTENDANCE, LOGISTICS, REQUISITION

ETC.

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# TYPES OF SOFTWARE DEVELOPMENT PROJECTS

## ORGANIZATIONAL DEVELOPMENT

OFFICE AUTOMATION & INFRASTRUCTURE SYSTEMS

FRONT OFFICE, BACK OFFICE

Educational software, Academic Learning

## EXPERT SYSTEMS

FLIGHT CONTROL

SPACE MISSIONS

MISSILE SYSTEMS

## MECHATRONICS

Robots and robot arms

# TYPES OF SOFTWARE DEVELOPMENT PROJECTS

## MECHATRONICS

- Robots and robot arms

## EMBEDDED SYSTEMS

- MEDICAL SYSTEMS

- HANDHELD DEVICES

- AUTOMATION SYSTEMS

- Open source micro-controller based boards

## MOBILE APPLICATIONS

- DATA MANAGEMENT

- GAME DEVELOPMENT

## SIMULATION

- Software

- Hardware

- Hybrid

- Virtual Reality

# NONE OR MINIMUM SOFTWARE DEVELOPMENT

TECHNOLOGY: SOFTWARE DEVELOPMENT

APPLICATION/IMPLEMENTATION: NONE

NETWORKING PROJECTS

- Network design and configuration

- Network performance evaluation

- Network security

- ISP setups

- Call center setups

- Data center setups

- Cloud network design and implementation

# POPULAR AREAS OF SOFTWARE PROJECTS

Bioinformatics

CAD software

Entertainment

Games, Puzzles, Quiz, Audio/video processing/mixing,

Media players, Music/melody maker/mixers,

Graphics

Animation, CAD, Diagramming, Imaging, Plotting, Photo-editing,

Health care

Diagnostics, Medical transcription,

Dentist, eye specialist/optician software,

Disabled people support software,

Public health engineering,

Medical/health research (DNA, genealogy, etc)

# POPULAR AREAS OF SOFTWARE PROJECTS

Manufacturing and industry

Process control, Device control, Industry automation, Calibration, Calculations, Forecasting,

Agriculture and farming

geographical spread, weather, crops, etc

Archeology and anthropology

Architecture and civil engg design

Electrical engineering related projects

Finance and Business

Business admin software, finance, prize bonds, money changers, stocks, HRM Software, HRD software,

Buiness investment, business forecasting software

Taxing software, revenue software,

# POPULAR AREAS OF SOFTWARE PROJECTS

## Communication and telecommunication software

Embedded radio or TV channels software, webTV, chat, conference, seminars,

A web browser, search engine,

Blue tooth software,

Electronic bulletin boards,

Remote access, remote management/admin,

Telephony, speech processors, speech synthesizers,

## Community and religious

event search, data search, referencing,

learning/academic software, games, animations

Banquet/wedding planning,



# POPULAR AREAS OF SOFTWARE PROJECTS

Public administration and local govt

e-polling, eGov,

railways traffic management, road traffic management,

civil aviation, armed forces,

Science and technology

Astronomy, geography, geology,

# Management Information Systems

Transaction processing systems

[large volumes of routine data collection activities]

Examples: payroll, inventories/stocks, POS, order processing systems, reservation systems, payments and funds transfer, library, etc..

Operations Information systems

[process/organize/summarize data from TPS for managers to make tactical decisions]

Examples: raw material requisition, results, enrolments, customer support systems, etc.

# Management Information Systems

Decision support systems

[provide prepared information from TPS, OIS for strategic decisions by upper management]

or Executive information systems

Examples: HRM, HRD, Performance evaluation, Budgeting systems,

Expert systems

[perform tasks and decisions on their own to mimic and support human interaction]

# Management Information Systems

## ERPs

[facilitation of flow of info between all functional elements of a corporate/enterprise organization]

## Supply chain management systems

[vendors, suppliers, customers, orders, costs & pricing, inventories, stocks, financial, forecasting, budgeting, etc]

## Websites/web portals

Personal, small group

Government portals

News portals [sports, weather, show-biz/fashion, entertainment,

Cultural, social,

Corporate portals

Search portals

Stock portals

Entertainment and TV

Academia

Tender portals