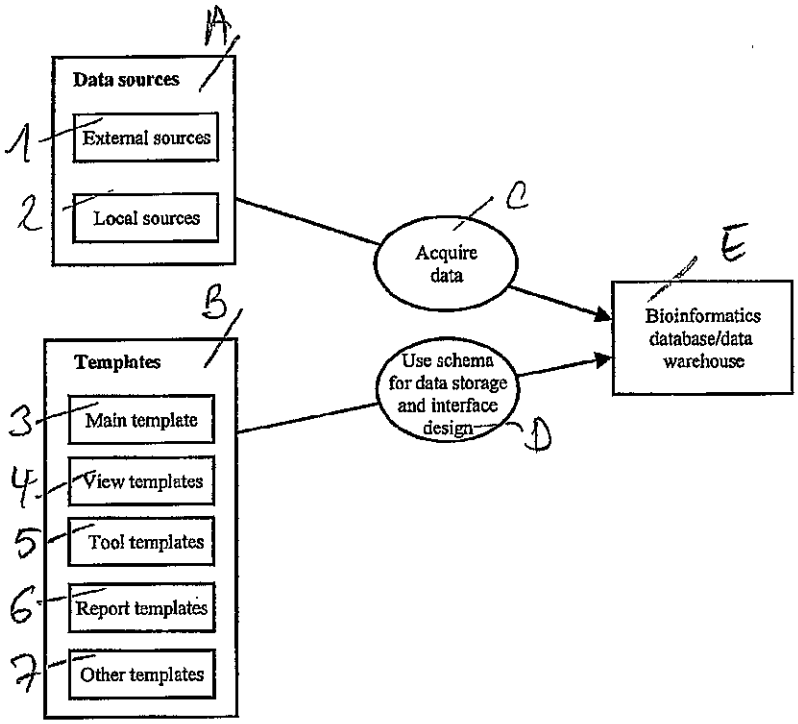

A
Data sources
1
External sources
2
Local sources
C
Acquire data
E
Bioinformatics database/data warehouse
B
Templates
3
Main template
4
View templates
5
Tool templates
6
Report templates
7
Other templates
Use schema for data storage and interface design
D

Figure 1.

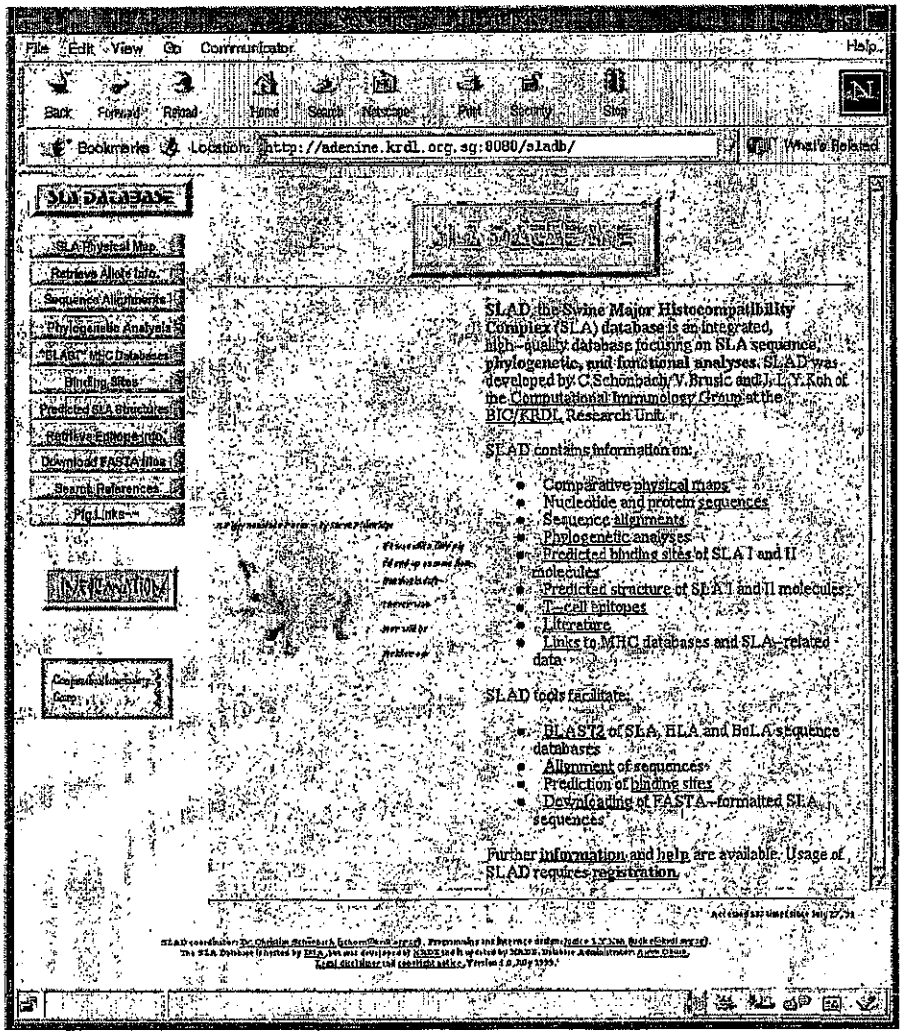

File Edit View Go Communicator Help
Back Forward Reload Home Search Netscape Print Security Stop
Bookmarks Location: http://adenine.krdl.org.sg:8080/sladb/
SLA DATABASE
SLA Physical Map
Retrieve Allele Info
Sequence Alignments
Phylogenetic Analysis
"BLAST" MHC Databases
Binding Sites
Predicted SLA Structures
Positive Epitopes (TCE)
Download FASTA files
Search References
Pig Links
INFORMATION
SLAD, the Swine Major Histocompatibility Complex (SLA) database is an integrated, high-quality database focusing on SLA sequence, phylogenetic, and functional analyses. SLAD was developed by C.Schönbach, V.Brusic and L.Y.Koh of the Computational Immunology Group at the BIC/KRDL Research Unit.
SLAD contains information on:
Comparative physical maps
Nucleotide and protein sequences
Sequence alignments
Phylogenetic analyses
Predicted binding sites of SLA I and II molecules
Predicted structure of SLA I and II molecules
T-cell epitopes
Literature
Links to MHC databases and SLA-related data
SLAD tools facilitate:
BLAST2 of SLA, HLA and BoLA sequence databases
Alignment of sequences
Prediction of binding sites
Downloading of FASTA-formatted SLA sequences
Further information and help are available. Usage of SLAD requires registration.

Figure 2.

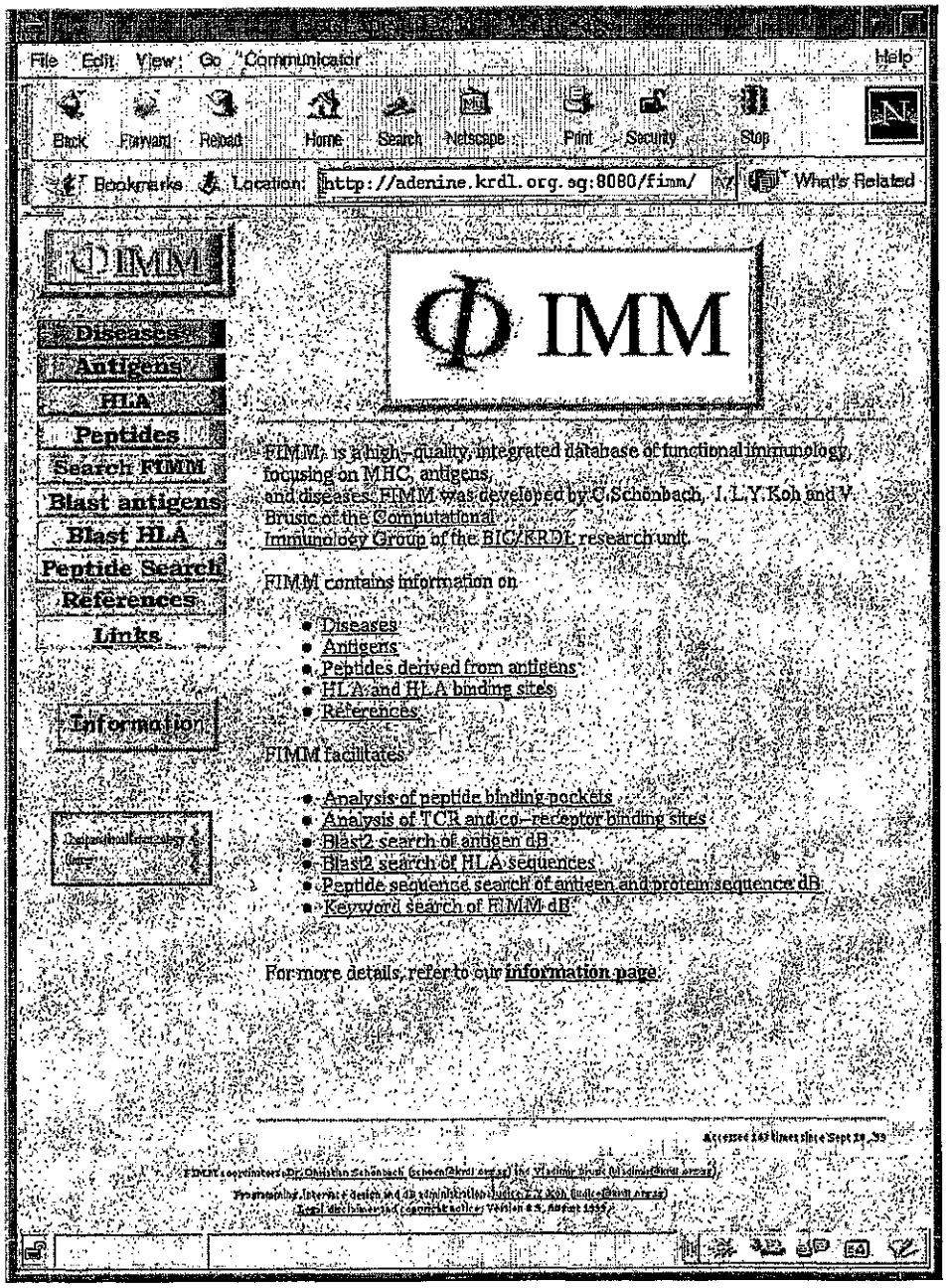

File Edit View Go Communicator Help
Back Forward Reload Home Search Netscape Print Security Stop
Bookmarks Location: http://adenine.krdl.org.sg:8080/fimm/ What's Related
IMM
Diseases
Antigens
HLA
Peptides
Search FIMM
Blast antigens
Blast HLA
Peptide Search
References
Links
Information
IMM
FIMM, is a high-quality, integrated database of functional immunology, focusing on MHC, antigens, and diseases. FIMM was developed by C.Schönbach, J.L.Y.Koh and V. Brusic of the Computational Immunology Group of the BIC/KRDL research unit.
FIMM contains information on
Diseases
Antigens
Peptides derived from antigens
HLA and HLA binding sites
References
FIMM facilitates
Analysis of peptide binding pockets
Analysis of TCR and co-receptor binding sites
Blast2 search of antigen dB
Blast2 search of HLA sequences
Peptide sequence search of antigen and protein sequence dB
Keyword search of FIMM dB
For more details, refer to our information page.

Figure 3.

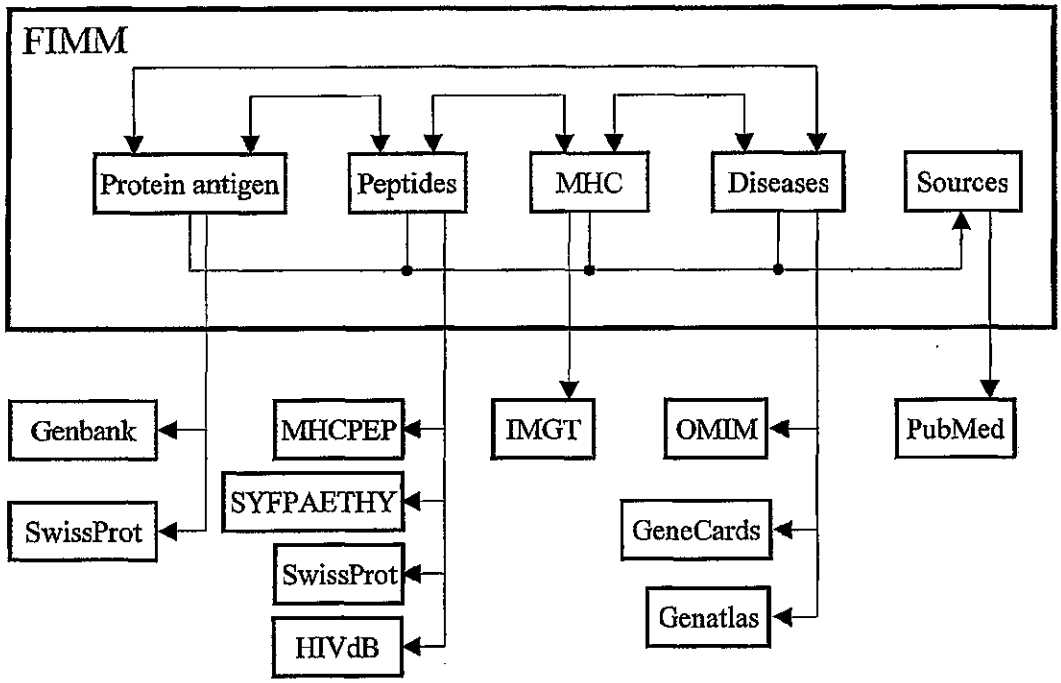

FIMM
Protein antigen
Peptides
MHC
Diseases
Sources
Genbank
SwissProt
MHCPEP
SYFPAETHY
SwissProt
HIVdB
IMGT
OMIM
GeneCards
Genatlas
PubMed

Figure 4.

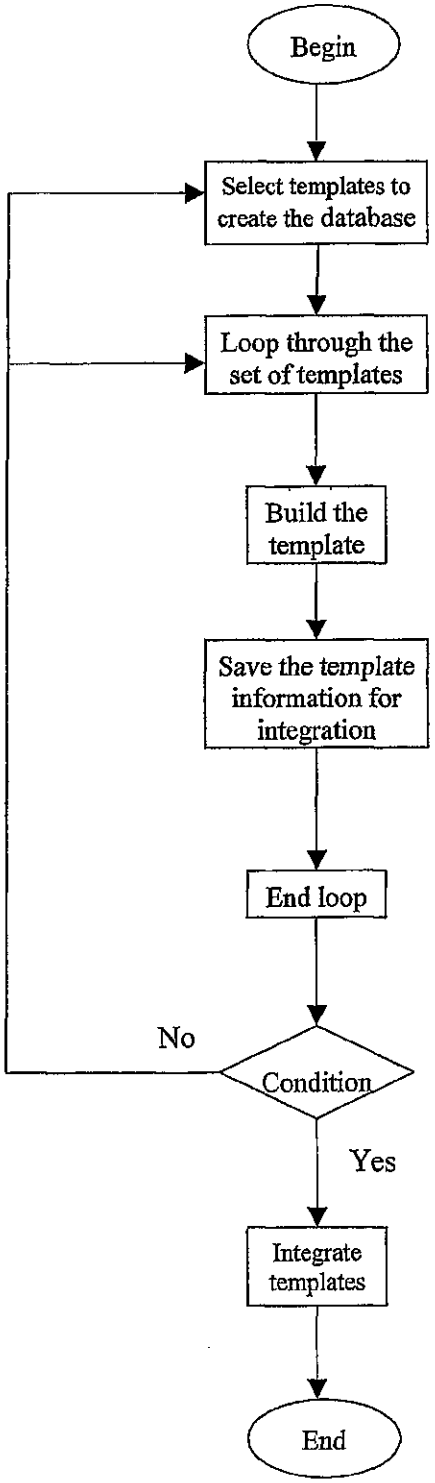
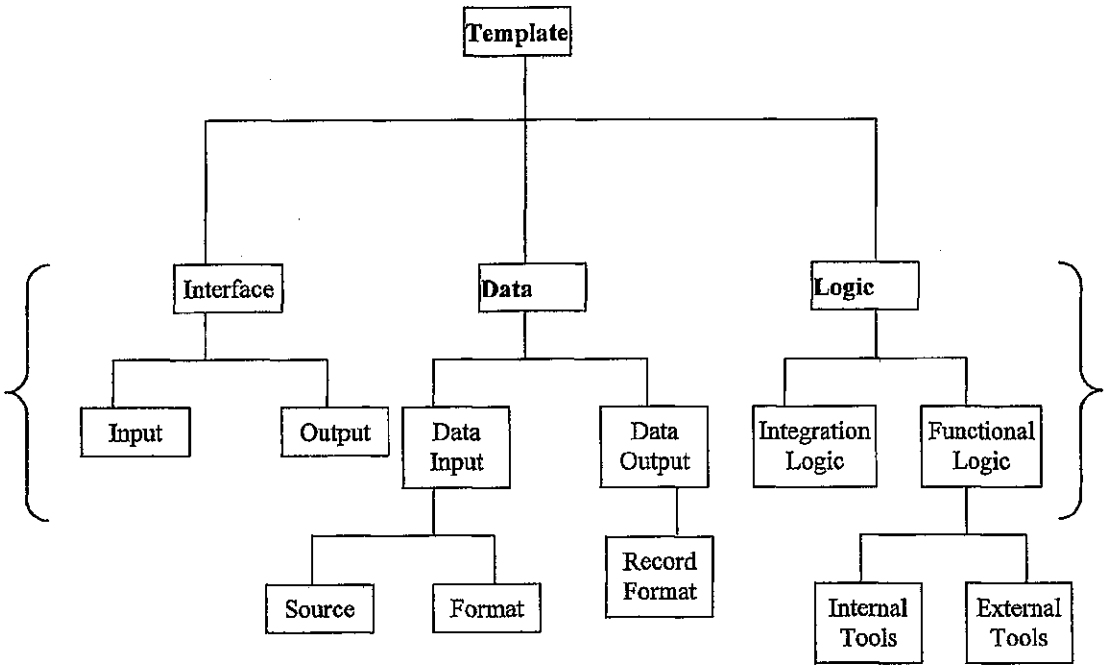

Begin
Select templates to create the database
Loop through the set of templates
Build the template
Save the template information for integration
End loop
No
Condition
Yes
Integrate templates
End

Figure 5.



{} – sub-specifications.

Figure 6.

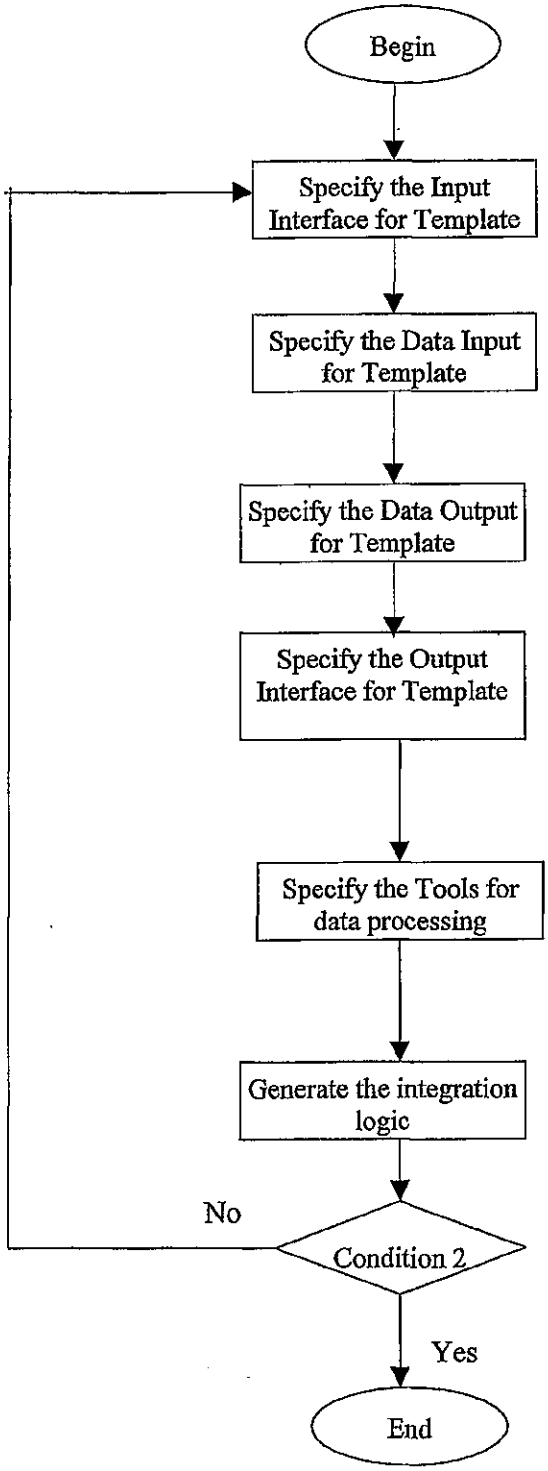

Begin
Specify the Input Interface for Template
Specify the Data Input for Template
Specify the Data Output for Template
Specify the Output Interface for Template
Specify the Tools for data processing
Generate the integration logic
No
Condition 2
Yes
End

Figure 7.

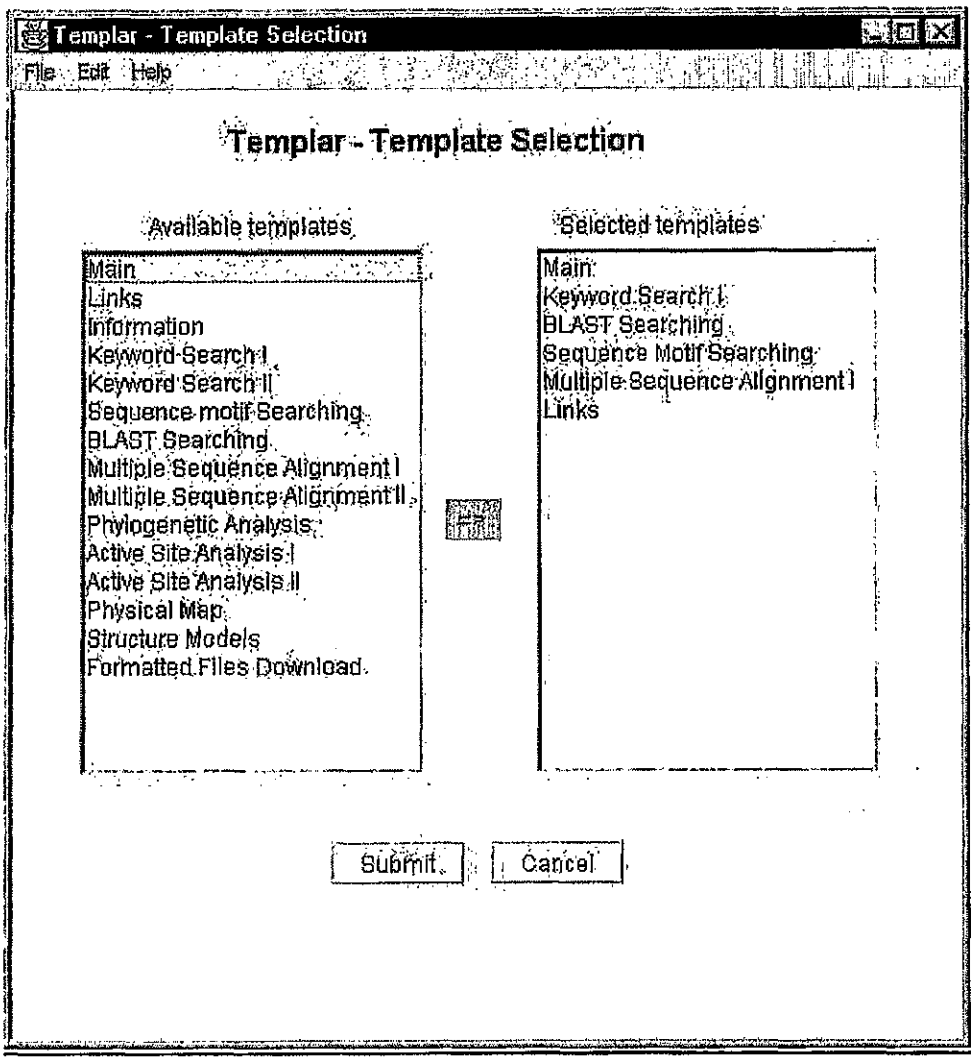

Templar - Template Selection
File Edit Help
Templar - Template Selection
Available templates
Main
Links
Information
Keyword Search I
Keyword Search II
Sequence motif Searching
BLAST Searching
Multiple Sequence Alignment I
Multiple Sequence Alignment II
Phylogenetic Analysis
Active Site Analysis I
Active Site Analysis II
Physical Map
Structure Models
Formatted Files Download
Selected templates
Main
Keyword Search I
BLAST Searching
Sequence Motif Searching
Multiple Sequence Alignment I
Links
Submit
Cancel

Figure 8.

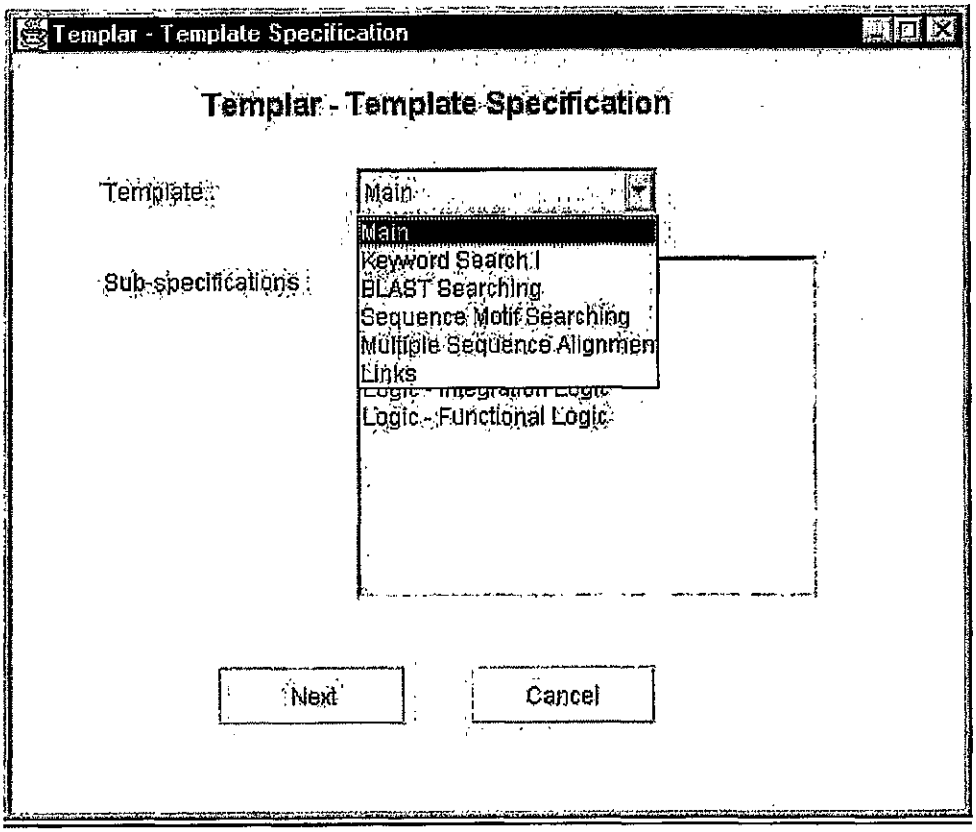

Templar - Template Specification
Templar - Template Specification
Template:
Main
Main
Keyword Search I
BLAST Searching
Sequence Motif Searching
Multiple Sequence Alignmen
Links
Logic - Functional Logic
Sub-specifications:
Next
Cancel

Figure 9.

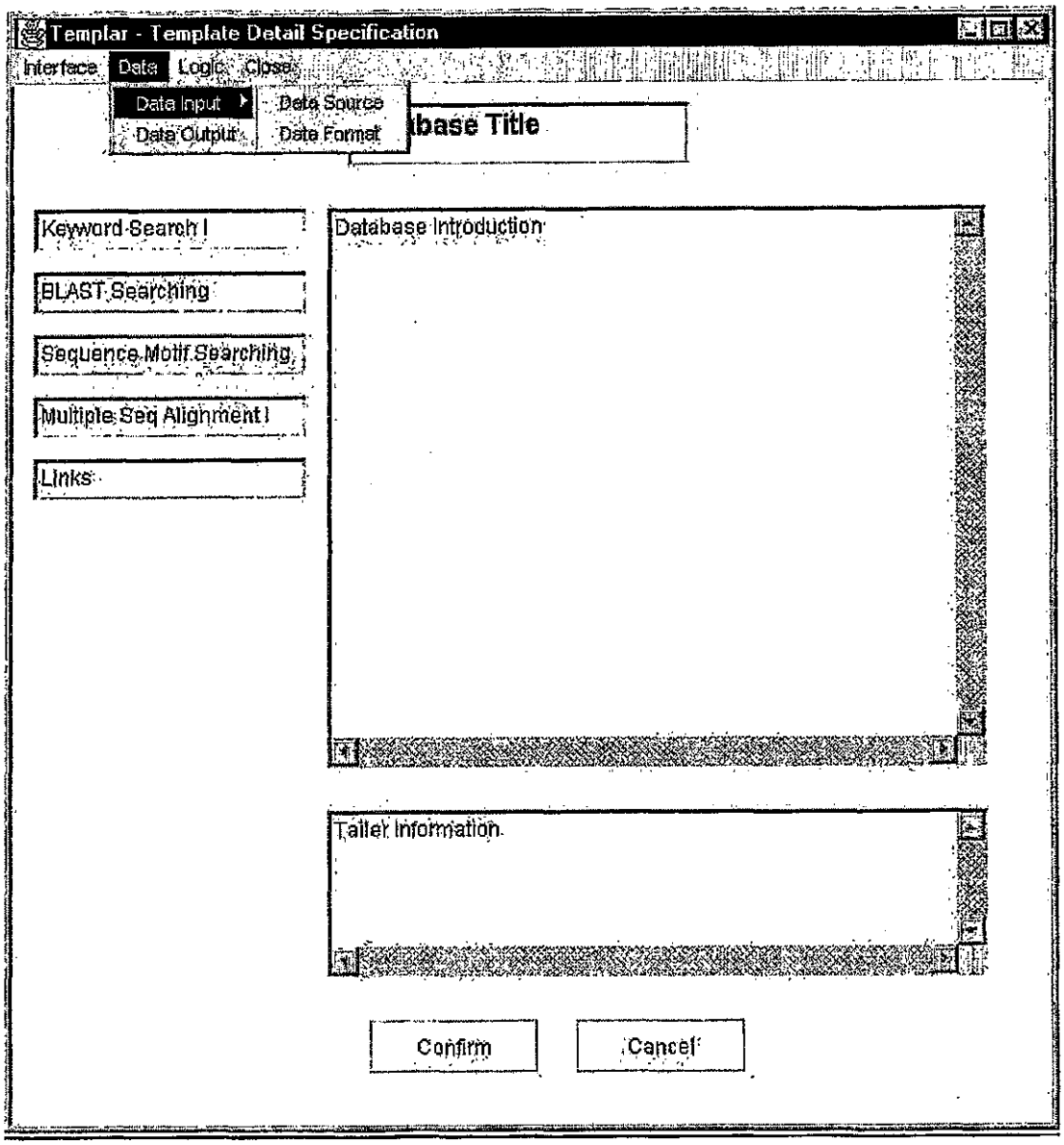

Templar - Template Detail Specification
Interface
Data
Logic
Close
Data Input
Data Output
Data Source
Data Format
base Title
Keyword Search
BLAST Searching
Sequence Motif Searching
Multiple Seq Alignment
Links
Database Introduction
Tailer Information
Confirm
Cancel

Figure 10.